

CARDAX

PRODUCT LIST

2 April 2003

cardax

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Cardax has a policy of reviewing prices twice annually. This should be taken as formal notification of possible price alterations.

Cardax has taken great effort to verify the accuracy of this manual but assumes no responsibility for any technical inaccuracies or typographical errors.

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CONTACT INFORMATION

To find out more about Cardax security solutions, contact your nearest Cardax office or visit us at www.cardax.com. We'll be happy to provide further information about our company, and details of the systems we have available to deliver your complete security solution.

Head Office, New Zealand

Cardax (International) Limited

Private Bag 3026
Hamilton
New Zealand

Phone +64 7 838 9851
Fax +64 7 838 9801
Email salesnz@cardax.com

Cardax Customer Services

Phone +64 7 838 9851
Fax +64 7 838 9870
Email cdxcustomerservice@cardax.com

Cardax Technical Services

Phone +64 838 9851
Fax +64 7 838 9801
Email cdxtechnicalsupport@cardax.com

Australia

Cardax (Australia) Pty Ltd
P.O.Box 528
Crows Nest
NSW 1585
Australia

From 24 March 2003, new street address:
Level 2/29 Anderson Street
Chatswood NSW 2067.

Phone: +61 2 9412 4477
Fax: +61 2 9904 8546
Email salesaustralia@cardax.com

For Sales Order Management and Technical Support:
Phone +61 2 9439 8599

United Kingdom / Europe

Cardax (Europe) Limited
Security House, Unit 5
Eastboro Fields
Hemdale Business Park
Attleborough, Nuneaton
Warwickshire, CV11 6GL
United Kingdom

Phone +44 2476 641234
Fax +44 2476 642345
Mobile +44 7899 890715
Email saleseurope@cardax.com

South Africa

Cardax South Africa
106 Somerset Gardens
Beverley Extension 4
Lonehill
Sandton 2055
Republic of South Africa

Phone +27 11 467 2149
Fax +27 11 467 2149
Mobile +27 82 787 4488
Email salesafrica@cardax.com

Contact Information cont.

China

Cardax China
Room 12A07
CTS Tower
No. 2 Beisanhuan East Road
Beijing 100028
China

Phone +86 10 6460 9333
Fax +86 10 6464 6555
Mobile +86 13 7116 5274
Email saleschina@cardax.com

India

Cardax India
Cardax Business Development Manager (India)
C/- Cardax (International) Ltd
Private Bag 3026
Hamilton
New Zealand

Phone +64 7 838 9851
Fax +64 7 838 9801
Email salesindia@cardax.com

South America

Cardax Account Manager (South America)
C/- Cardax (International) Ltd
Private Bag 3026
Hamilton
New Zealand

Phone +64 7 838 9851
Fax +64 7 838 9801
Mobile +64 21 999 754
Email salesamericas@cardax.com

Singapore & Central Asia

Cardax Business Development Manager
No. 1, Tannery Road
#04-01
Cencon 1 Building
Singapore 347719

Phone +65 748 1151
Fax +65 748 1151
Mobile +65 9679 8628
Email salesseasia@cardax.com

Eastern Europe & Middle East

Cardax (Europe) Limited
Security House, Unit 5
Eastboro Fields,
Hemdale Business Park
Attleborough, Nuneaton
Warwickshire, CV11 6GL
United Kingdom

Phone +44 2476 641234
Fax +44 2476 642345
Mobile +44 7899 890715
Email saleseasteurope@cardax.com

Important Information for Purchase Orders

To help us to fulfil your order, please ensure you supply us with the following information:

- ✓ Your purchase order number
- ✓ Your company name and address, telephone/fax number(s) and email address, and the name of the person to contact for any queries we have relating to this order
- ✓ Full delivery information including the recipient's name and address, telephone/fax number(s) and email address, and the name of the person to take receipt of the order
- ✓ Attach the appropriate Software Configuration Form providing full details requested
- ✓ For orders relating to Training or Technical Support Services, please contact us to discuss your requirements first:
 - ✓ email cdxtraining@cardax.com for training enquiries
 - ✓ email cdxtechnicalsupport@cardax.com for technical support services
 - ✓ or contact your Cardax office.

To acknowledge receipt of your order, and to confirm your requirements and in need, request further information, we will send you an Order Confirmation. Please check this and contact us for any further clarification required.

Cardax FT Upgrade Pricing

Software Version Upgrade Pricing Policy: Cardax FT Series Command Centre

This policy applies to Cardax FT Command Centre, both Series 3 and Series 5.

- ♦ Cardax FT Standard and Enterprise sites are entitled to free software upgrades up to version 3.0 for Cardax FT Series 5 Command Centre - Unrestricted. Please complete the Cardax FT Command Centre Software Configuration Form (see Appendix) by filling in the site information (including the site number) and selecting one of the following options listed under Server Options :
C201810 Server software CD
C201820 Server software CD + User Guide
- ♦ From version 4.0, currently scheduled for phased release during the second and third quarters 2003, an upgrade pricing policy will apply. Details on the upgrade pricing policy will be sent to all Cardax distributors before this release.
- ♦ There may be occasions where a new license will be required to support a Version Upgrade. This will be supplied at the same time as the server software. Please contact Cardax if you have any questions.

Series Upgrade Pricing Policy

The Cardax FT Series provide expansion options.

To upgrade to a higher value Series e.g. from Series 3 Command Centre – 64 Doors to Series 5 Command Centre – 128 Doors, please complete the Cardax FT Command Centre Software Configuration Form (including the site number) and select the server option the site wishes to upgrade to.

- ♦ Pre-requisite: The site must upgrade to the latest FT Command Centre software release before undertaking a Series upgrade.
- ♦ A Series upgrade is considered as a trade-in and the cost is the difference between the respective List Prices for the Series Command Centres and licenses/features current at the time of order.
- ♦ The original Series Command Centre server license entitlements are transferred. In other words, the free licenses included with the server do not accumulate when a site does a Series Upgrade. For example, the number of free cardholder licenses will remain at 15,000 when a site does a Series Upgrade.

Cardax Product Status

Definitions of Product Status Categories:

All products are current except where listed as otherwise as per the following:

Development

These products are not yet available ex stock. Please check availability before committing to a sale.

Legacy Products

Cardax Legacy products are products that are no longer part of the current Cardax product range. They should not be used for new systems unless otherwise recommended by Cardax.

Legacy hardware products will often have a longer than normal lead time because they are built to order. If the lead-time is greater than the scheduled ship date Cardax will advise customers of the new lead-time.

A Legacy hardware product will be 'flagged' with the end dates of the supply and technical support periods. Note that these dates are subject to component availability so may be brought forward.

Legacy software products will be supported for a period of 5 years, unless otherwise determined by Cardax.

With the introduction of Cardax FT Series 3 and Series 5, Cardax Commanders and associated devices and system software are now on legacy status. The following information details the future supply and support of these specific legacy products and systems.

1. Commanders, Scouts, Liftmasters, URIs

- ♦ Cardax will continue to supply Commanders and associated devices as legacy products until 31 Dec 2004. From 1 January 2005, they will be put onto Run-out Status
- ♦ For each product, supply is subject to the continued availability of components.
- ♦ There will be no more software or hardware development (except as defined under Technical Support*)
- ♦ Cardax will continue to provide Technical Support* for 5 years following their cease of manufacture.

2. CC UNIX, CC50, CCNT, PhotoPass

- ♦ These systems are now unavailable to new sites
 - where Cardax offers expansion options, existing sites can still expand their systems e.g., additional workstation licenses for CCNT and CC UNIX systems
- ♦ There will be no more development (except as defined under Technical Support*)
 - Note that these systems are locked to their current operating system platforms
- ♦ Technical Support* of system software will continue to be provided in conjunction with the support of Commander and associated devices.

* Technical Support includes:

- Resolving major anomalies (as determined by Cardax)
- Telephone and on-site support as per normal Cardax Technical Support operations

Run-Out Products

Run-out products are obsolete products where there is limited stock still available at the time of publishing. Please check on availability before ordering.

Obsolete product

These are products that are obsolete and are no longer available. Obsolete products will be included in the price list and associated product list for one issue of the price list and product list immediately following their market withdrawal.

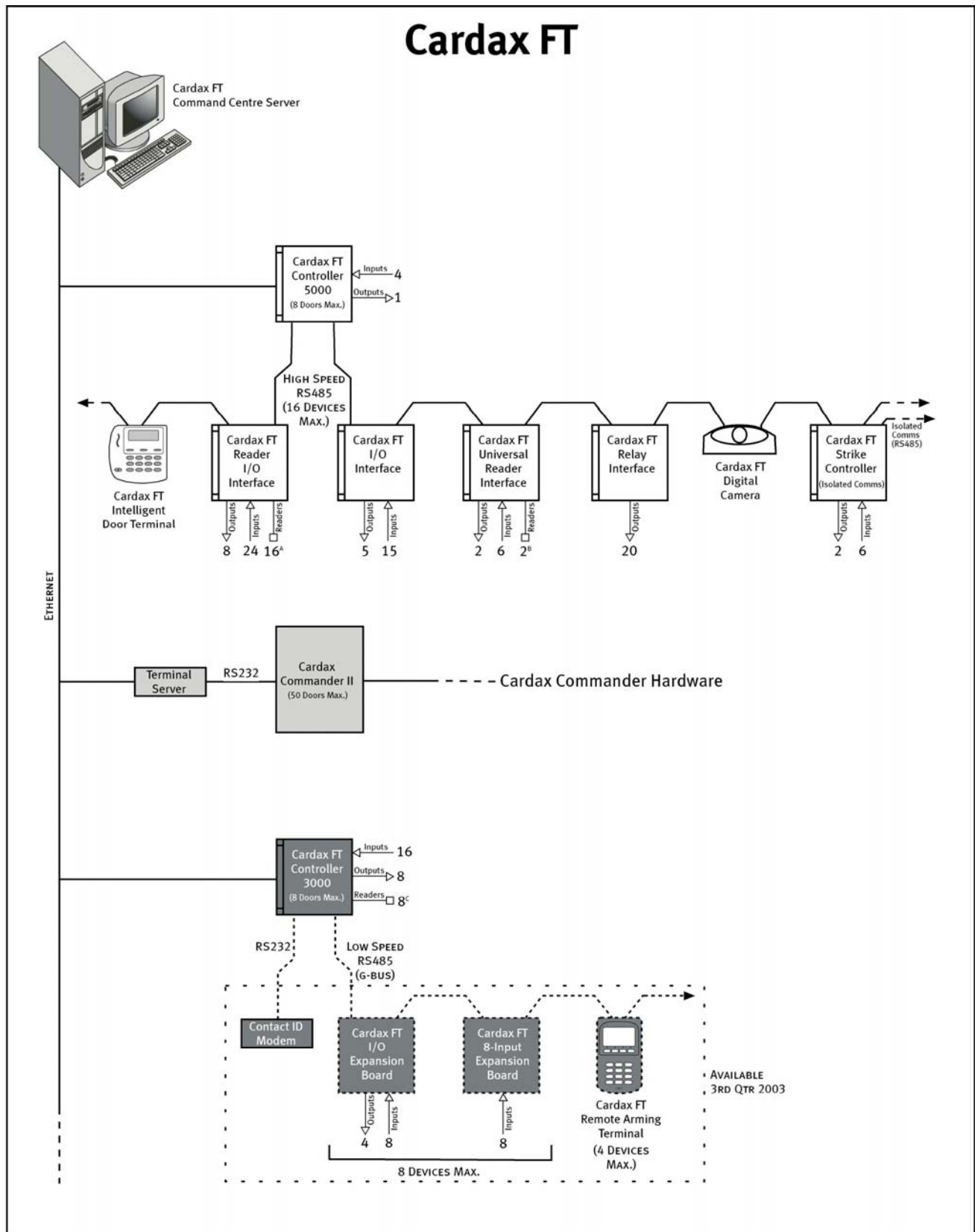
Status Dates:

Development status date: this is the calendar quarter of planned release to market e.g. Q1 03 means a product is planned for market release during January-March 2003.

Legacy status dates: these are the end dates of the planned supply and support periods e.g. Supply Q4 04 means that the product will be supplied until December 2004. Support Q4 09 means that the product will cease to be supported at the end of December 2009. These dates are subject to the availability of components.

Obsolete and Runout status dates: this is the date that the product became obsolete.

Cardax FT System Architecture



- A. Cardax Mk4 readers only. The Cardax FT Reader I/O Interface does not support third party readers.
- B. The Cardax FT Universal Reader Interface supports either 2 Cardax Mk4 readers OR 2 third party readers.
- C. The Cardax FT Controller 3000 will support either 8 Cardax Mk4 readers OR 4 third party readers.

Section 1 CARDAX PRODUCT RANGE

1. CARDAX FT COMMAND CENTRE SERIES

Cardax FT Command Centre is the server software for Cardax FT access control and security systems.

It is a very powerful security management tool, providing the platform for integrating access control and security functions including comprehensive access control and cardholder management, alarms management, intruder alarm monitoring, Photo identification and a range of interfaces for sharing cardholder and event data with third party applications.

Residing on Microsoft Windows 2000/XP Professional operating system, the software incorporates SQL 2000 Desktop Engine database with the option to select SQL 2000 Server database. SQL 2000 Server (not included with the Cardax FT Command Centre server) is recommended for systems meeting any of the following conditions:

- ♦ 100 or more Controllers
- ♦ three or more operator Workstations
- ♦ includes more than one Communications Server
- ♦ system has high transaction rates (more than 50,000 events per day)

Cardax FT Command Centre server options are described as Series, with options provided on the number of doors.

All Cardax FT Command Centre Series options require a Site License (C201900) to enable system operation.

The following licenses are included with all server options:

- ♦ First 15,000 Cardholders
- ♦ Two Controller licenses (any combination of Controller 5000 and 3000 licenses)
- ♦ One Workstation
- ♦ One System Division
- ♦ One Communications Server

Please refer to the list below for server options, license requirements and optional features.



1.1 CARDAX FT COMMAND CENTRE SERIES OPTIONS

C201311 Series 3 Command Centre – 16 Doors

Server software for sites with up to 16 doors. All hardware configurations under the Cardax FT architecture are supported.

All licenses and options listed under the Site License C201900 are available for Series 3 systems. Commander Interface is available on this option for sites with up to 64 doors migrating from the Cardax Command Centre 50 .

Series 3 Command Centre – 16 Doors can be expanded. Please refer to the Series Upgrade section in this Product List.

Please complete the Cardax FT Command Centre Software Configuration Form (see Appendix).

C201300 Series 3 Command Centre – 64 Doors

Server software for a system of up to 64 doors. All hardware configurations under the Cardax FT architecture are supported.

All licenses and options listed under the Site License C201900 are available for Series 3 systems. Commander Interface is available on this option for sites with up to 64 doors migrating from the Cardax Command Centre 50 .

Series 3 Command Centre – 64 Doors can be expanded. Please refer to the Series Upgrade section in this Product List.

Please complete the Cardax FT Command Centre Software Configuration Form (see Appendix).

C201520 Series 5 Command Centre – 128 Doors

Server software for a system of up to 128 doors. All hardware configurations under the Cardax FT architecture are supported.

All licenses and options listed under the Site License C201900 are available for Series 5 systems. This includes Commander Interface for sites migrating from legacy Cardax Command Centre UNIX and NT systems with up to 128 Doors.

Series 5 Command Centre – 128 Doors can be expanded. Please refer to the Series Upgrade section in this Product List.

Please complete the Cardax FT Command Centre Software Configuration Form (see Appendix).

C201500 Series 5 Command Centre – Unrestricted

Server software for Cardax FT Series 5 Command Centre for sites requiring an unrestricted number of doors.

All options listed under the Site License C201900 are available for Series 5 systems. This includes Commander Interface for sites migrating from legacy Cardax Command Centre UNIX and NT systems.

Please complete the Cardax FT Command Centre Software Configuration Form (see Appendix).

C201501 FT Command Centre Demo Software

Includes restricted license to enable demonstration of Cardax FT Series 5 Command Centre software together with hardware (see Demonstration Briefcase C200500) for one year from the date the license is generated.

Default license comes with the following standard configuration: 100 Cardholders, 1 Controller 3000, 1 Controller 5000, 1 Workstation, 1 Commander Interface, 2 System Divisions, 1 Communication Server, CCTV Interface, Remote Alarm Management (ContactID Format), Cardholder Import, PhotoID and Log Printer Interface.
(Note: High Level Encryption is unavailable.)

Please complete the FT Command Centre Software Configuration Form to indicate any changes required for the demo license, and to advise the MAC address of the Controller to be used for demonstrations (see Appendix).

Cardax FT Series 5 Command Centre Demo can be used to create configuration templates for sites.

1.2 CARDAX FT COMMAND CENTRE SERIES - LICENSES & OPTIONAL FEATURES

A new license is required

- * For all new sites
- * For license extension to an existing site e.g. to increase the number Controller licenses
- * To add software options to an existing sites

Please order C201900, and complete the Cardax FT Command Centre Software Configuration Form (see Appendix).

In some cases for existing sites, a Software Version Upgrade may be required to support specific features. Please check with Cardax.

C201900 FT Command Centre Site License

The Site License is required to run Cardax FT Command Centre and requires the following Licenses and Software Options to be specified using the Cardax FT Command Centre Software Configuration Form (see Appendix):

LICENSES

2A8065

Cardholder License

- ♦ Number of Cardholder records to be stored in the database.
- ♦ First 15,000 Cardholder Licenses are provided free of charge with the server software (C201300, C201311, C201520, C201500)
- ♦ Cardholder License fee is calculated on the next 9,500 Cardholder Licenses, and is capped at 24,500 i.e. Cardholder License fee applies only between 15,001 and 24,500 Cardholder Licenses inclusive.)

2A8044

Controller 3000 License

- ♦ Number of Controller 3000s operating on the system.
- ♦ Two Controller licenses (any combination of Controller 3000 and 5000 licenses) are included with server software (C201300, C201311, C201520, C201500)

2A8137

Controller 5000 License

- ♦ Number of Controller 5000s operating on the system.
- ♦ Two Controller licenses (any combination of Controller 3000 and 5000 licenses) are included with server software (C201300, C201311, C201520, C201500).

2A8067

Workstation License

- ♦ Number of concurrent workstation sessions (i.e. simultaneous operator logons) required on the system.
- ♦ One Workstation license is included with the server software (C201300, C201311, C201520, C201500).

2A8068

Commander Interface

- ♦ Enables Cardax Commander II technology to be integrated in the system.
- ♦ Licensed on a per Commander basis. Includes the latest /N Commander EPROM (C15466) required for migration purposes.

2A8069

System Division

- ♦ Number of System Divisions required on the system.
- ♦ The license for one System Division is included with the server software (C201300, C201311, C201520, C201500).

2A8070

Communication Server

- ♦ Number of additional Communication Servers for Controllers.
- ♦ The server software (C201300, C201311, C201520, C201500) incorporates the first Communication Server. On large sites exceeding 100 Controllers, or distributed sites, additional Communication Servers may be required.
- ♦ Please contact Cardax first to discuss system requirements.

SOFTWARE OPTIONS

| | | |
|--------|---|------------------------------|
| 2A8071 | Photo ID <ul style="list-style-type: none">• Enables image capture, card design and card printing from all Operator Workstations licensed on the system. | |
| 2A8072 | High Level Encryption <ul style="list-style-type: none">• The High Level Encryption option provides greater security to communications between the Controller and Cardax FT Command Centre. Release is subject to Government authorisation. Please contact Cardax first to discuss requirements. | |
| 2A8133 | Cardholder Import <ul style="list-style-type: none">• Enables cardholder data to be imported from third party systems via an XML interface. | |
| 2A8134 | Log Printer Interface <ul style="list-style-type: none">• Enables printing to a log printer. | |
| 2A8135 | Remote Alarms Management (ContactID format) <ul style="list-style-type: none">• Enables remote alarm monitoring from the Cardax FT Command Centre.• Alarm monitoring format available: ContactID | |
| 2A8136 | CCTV High Level Interface <ul style="list-style-type: none">• A high level interface for CCTV cameras and other executables (using ASCII string protocol). | |
| 2A8140 | HID Card Data Format <ul style="list-style-type: none">• The Cardax FT system supports a variety of card formats as provided by manufacturers of other readers including HID. Please contact Cardax for information on card formats supported.• Please tick the HID option on the Command Centre Software Configuration Form (see Appendix) if HID card format is required.• For orders from: USA, Canada, Austria, Germany, France, Great Britain, Sweden and Switzerland – please contact Cardax to discuss site requirements first. | |
| 2A8142 | DVR Interface <p>Provides integration of DVR systems to the FT Command Centre.</p> | Status: Development Q3 03 |

2. CARDAX FT CONTROLLER 3000

The Cardax FT Controller 3000 is a cost effective, intelligent field controller with integrated I/O and reader connections.

Field devices that connect to the Cardax FT Controller 3000 are currently in development, and include:

- * Remote Arming Terminal for remote alarms management. Scheduled release: Q2 03.
- * I/O Expansion devices. Scheduled release Q3 03.

Please note: only products supplied in Cardax FT Cabinets have been tested to international standards.

C200117 Controller 3000

Site controller with:

- ♦ Four reader ports. Each reader port supports 2 Cardax readers or 1 Wiegand reader -
 - Maximum number of Cardax readers is 8
 - Maximum number of Wiegand readers is 4

... and on-board connections for:

- ♦ 16 inputs
- ♦ 8 outputs

Supplied fitted in a Cardax FT Cabinet.

Two Controller licenses (any combination of Controller 3000 and 5000 licenses) are included with server software. Please request additional Controller 3000 licenses (2A8044) when additional Controllers 3000 are required.



C200116 Controller 3000, Board only

3. CARDAX FT CONTROLLER 5000 & DEVICES

The Cardax FT Controller 5000 is a field controller that supports a comprehensive range of high-speed RS 485 local bus devices including a range of Cardax FT input/output options, Digital Camera, readers and Intelligent Door Terminals.

Please note: only products supplied in Cardax FT Cabinets have been tested to international standards.

3.1 CONTROLLER 5000

C200111 Controller 5000

Site controller capable of supporting 16 Cardax FT field devices. Has 4 input and 1 output connections built in. Supplied fitted in a Cardax FT Cabinet.

Two Controller licenses (any combination of Controller 3000 and 5000 licenses) are included with server software. Please request additional Controller 5000 licenses (2A8137) when additional Controller 5000s are required.



C200110 Controller 5000, Board only

3.2 CONTROLLER 5000 DEVICES FOR INPUTS/OUTPUTS & READER CONNECTIONS

C200121 Relay Interface

Cardax FT field device providing 20 output relay connections. Supplied fitted in a Cardax FT Cabinet.

C200120 Relay Interface, Board only

C200131 I/O Interface

Cardax FT field device providing input/output interface. Each I/O Interface has 15 input and 5 output connections. Supplied fitted in a Cardax FT Cabinet.

C200130 I/O Interface, board only

C200141 Universal Reader Interface

Cardax FT field device with connections for two card readers. Card readers may be:

- Cardax Mk4 Format
- Third party format such as Wiegand data format.

Each Universal Reader Interface has connections for 2 readers, 6 inputs and 2 outputs. Supplied fitted in a Cardax FT Cabinet.

C200140 Universal Reader Interface, board only

C200151 Strike Controller

Cardax FT field device to provide isolated connection for door equipment. Suitable for external doors where any damage due to vandalism is isolated to the Strike Controller.

Each Strike Controller has an isolated RS485 connection for Cardax FT Reader/IDT connections, 6 inputs and 2 outputs. Supplied fitted in a Cardax FT Cabinet.

C200150 Strike Controller, board only

C200181 Reader I/O Interface

Cardax FT field device to support up to 8 doors. Includes connections for 16 Cardax Mk4 format readers, 24 inputs and 8 outputs.

One Reader I/O Interface per Cardax FT Controller 5000 (C200111) recommended.

C200180 Reader I/O Interface, board only

C200900 Modem Cable

Cable assembly (400mm) to connect from a Controller to an external modem.

3.3 CONTROLLER 5000: CARDAX FT DIGITAL CAMERA & ACCESSORIES

The Cardax FT Digital Camera is supported by the Cardax FT Controller 5000.

The Digital Camera provides integrated motion detection, image security using 'encrypted watermarking' to authenticate images, and image compression for the transmission of images over the network. Connects to the Cardax RS485 bus.

C200310 Digital Camera, Cool Grey

Please order lens separately.

C200311 Digital Camera, Charcoal

Please order lens separately.



C200410 Digital Camera Lens, Wide angle, 2.1mm, f1.8, 92°H x 81°V

C200411 Digital Camera Lens, Wide angle, 2.9mm, f1.8, 96°H x 63°V

C200412 Digital Camera Lens, Medium angle, 3.6mm, f2.0, 63°H x 53°V

C200413 Digital Camera Lens, Narrow angle, 5.7mm, f2.0, 42°H x 60°V



C200425 Digital Camera set up cable

Cable to connect the Cardax FT Digital Camera directly to a PC to enable on-site set up. CamInstall software is provided on the Cardax FT Command Centre CD.

3.4 CONTROLLER 5000: CARDAX FT INTELLIGENT DOOR TERMINALS AND READERS

Cardax FT Intelligent Door Terminals (IDTs) and FT Prox Readers use the Cardax FT protocol, which is based on RS485. They connect either directly to the Cardax FT Controller 5000 or to the Cardax FT Controller 5000 via a Cardax FT Strike Controller.

Technology options and part numbers for IDTs and FT Prox Readers are included in the Cardax Reader Sections 4.1 – 4.3.

4. CARDAX READERS, TRANSPONDERS & ACCESSORIES

Cardax Readers are available in two electrical connection formats. These are:

i. **Cardax Door Readers, Mk4 Format**

These readers use a proprietary Cardax protocol. They can be connected to the:

- * Cardax FT Controller 3000
- * Cardax FT Universal Reader Interface and the Cardax FT Reader I/O Interface (these devices are supported by the Cardax FT Controller 5000)
- * In Commander legacy systems, via the Cardax Universal Reader Interface.

In the reader descriptions, these are referred to as "Mk4 format".

ii. **Cardax FT Readers and Intelligent Door Terminals**

These readers use the Cardax FT protocol, which is based on RS485. The readers connect either directly to the Cardax FT Controller 5000 or to the Cardax FT Controller 5000 via a Cardax FT Strike Controller. In the reader descriptions below, they are referred to as "Cardax FT format".

4.1 CARDAX PROX READERS & TRANSPONDERS (125 SERIES)

The Cardax 125 Series readers support the widely available 125kHz proximity cards and transponders.

C190871 Prox 125 Series, Cool Grey, potted

Door reader without PIN pad. Connection is Mk4 format for either entry or exit reader use. The reader electronics is encapsulated in an environment-resistant resin. Wide cradle base option available (refer part C190955 in Reader Accessories)



C190872 Prox 125 Series, Charcoal, potted

Door reader without PIN pad. Connection is Mk4 format for either entry or exit reader use. The reader electronics is encapsulated in an environment-resistant resin. Wide cradle base option available (refer part C190956 in Reader Accessories)

C190881 Prox 125 Series, Cool Grey, unpotted

Door reader without PIN pad. Connection is Mk4 format for either entry or exit reader use. Wide cradle base option available (refer part C190955 in Reader Accessories)

C190882 Prox 125 Series, Charcoal, unpotted

Door reader without PIN pad. Connection is Mk4 format for either entry or exit reader use. Wide cradle base option available (refer part C190956 in Reader Accessories)



C190875 Prox Plus 125 Series, Cool Grey

Entry or exit proximity reader with PIN pad and LCD display. Electrical connection is Mk4 format.

C190876 Prox Plus 125 Series, Charcoal

Entry or exit proximity reader with PIN pad and LCD display. Electrical connection is Mk4 format.

CARDAX FT READERS (125 SERIES)

Cardax FT IDTs are supported by the Cardax FT Controller 5000. Please refer to section 3.4.

C200250 Intelligent Door Terminal 125 Series, Cool Grey

Door terminal incorporating a 125kHz technology proximity card reader, dot-matrix display and intercom. Electrical connection is Cardax FT format

C200251 Intelligent Door Terminal 125 Series, Charcoal

Door terminal incorporating a 125kHz technology proximity card reader, dot-matrix display and intercom. Electrical connection is Cardax FT format

CARDAX ACCESS CARDS AND TOKENS (125 SERIES)

- C196470 125 Series Prox-Magstripe card**
ISO thickness, printable card with both proximity transponder and magnetic stripe. Cards are reprogrammable.
- C196410 125 Series Prox clamshell card**
Reprogrammable clamshell card.
- C196450 125 Series Prox card**
ISO thickness, printable proximity card. Cards are reprogrammable.
- C196440 125 Series Prox Keyfob**
Reprogrammable keyfob.
- C870570 Ultracard PVC adhesive backed labels**
Please see section 6.



Card Encoding Service

Please see section 5.

4.2 CARDAX PROX READERS & TRANSPONDERS (MIFARE SERIES)

Incorporating Philips Semiconductors contactless Mifare Standard technology, the Cardax Mifare Series readers provide a smart card solution for access control.

- C197615 Prox Mifare Series, Cool Grey**
Door reader without PIN pad. Connection is Mk4 format for either entry or exit reader use. Wide cradle base option available (refer part C190955 in Reader Accessories).
- C197625 Prox Mifare Series, Charcoal**
Door reader without PIN pad. Connection is Mk4 format for either entry or exit reader use. Wide cradle base option available (refer part C190956 in Reader Accessories).
- C197710 Prox Plus Mifare Series, Cool Grey**
Entry or exit proximity reader with PIN pad and LCD display. Electrical connection is Mk4 format.
- C197720 Prox Plus Mifare Series, Charcoal**
Entry or exit proximity reader with PIN pad and LCD display. Electrical connection is Mk4 format.

CARDAX FT READERS (MIFARE SERIES)

Cardax FT IDTs are supported by the Cardax FT Controller 5000. Please refer to section 3.4.

- C200240 Intelligent Door Terminal Mifare Series, Cool Grey**
Door terminal incorporating a MIFARE technology proximity card reader, dot-matrix display and intercom. Electrical connection is Cardax FT format
- C200241 Intelligent Door Terminal Mifare Series, Charcoal**
Door terminal incorporating a MIFARE technology proximity card reader, dot-matrix display and intercom. Electrical connection is Cardax FT format

CARDAX ACCESS CARDS AND TOKENS (MIFARE SERIES)

- C196350 Mifare Series Prox Card – Blank**
Programmable and re-programmable Mifare card. Suitable for dye-sublimation printing.



- C196360 Mifare Series Prox Card – Pre Printed Cardax Logo**
 Programmable and re-programmable Mifare card. Pre-printed surface, blue with CARDAX logo. Status: Run-out Q4 01
- C196370 Mifare Series Prox-Magstripe card – Blank**
 Programmable and re-programmable Mifare card. Suitable for dye-sublimation printing. Includes hi-coercivity magnetic stripe.
- C196380 Mifare Series Prox-Magstripe card - Pre Printed Cardax Logo**
 Programmable and re-programmable Mifare card. Pre-printed surface, blue with CARDAX logo. Includes hi-coercivity magnetic stripe. Status: Run-out Q4 01

Card Encoding Service
 Please see section 5.

4.3 CARDAX PROX READERS & TRANSPONDERS (TIRIS SERIES)

The RFID technology used with the Cardax Tiris Series is based on Texas Instruments' TIRIS system using FM wireless technology.

- C190821 Prox Tiris Series, Cool Grey**
 Door reader without PIN pad. May be used as an entry or an exit reader. Electrical connection is Mk4 format.
- C190822 Prox Tiris Series, Charcoal**
 Door reader without PIN pad. May be used as an entry or an exit reader. Electrical connection is Mk4 format.
- C197010 Prox Tiris Series, Wiegand format Cool Grey**
 Door reader without PIN pad. May be used as an entry or an exit reader. Electrical connection is Wiegand format.
- C197020 Prox Tiris Series, Wiegand format Charcoal**
 Door reader without PIN pad. May be used as an entry or an exit reader. Electrical connection is Wiegand format.



Status:
Run-out Q4 01

Status:
Run-out Q4 01

- C190831 Prox Plus Tiris Series, Cool Grey**
 Entry or exit proximity reader with PIN pad and LCD display. Electrical connection is Mk4 format.
- C190832 Prox Plus Tiris Series, Charcoal**
 Entry or exit proximity reader with PIN pad and LCD display. Electrical connection is Mk4 format.



- C190860 Prox LR (Long Range) Tiris Series**
 A Long Range proximity unit that attaches to either a customised aerial or Gate Antenna (Part No 190943). Unit must be concealed in wall or ceiling cavity.
 Electrical connection is Mk4 format. Provides for read range between 1 and 2 metres - depending on operational environment and token used.



- C190943 Prox LR Gate Antenna, Tiris Series**
 Standard Long Range aerial for Cardax Long Range Prox (Part No C190860).



CARDAX FT READERS (TIRIS SERIES)

Cardax FT IDTs and Readers are supported by the Cardax FT Controller 5000. Please refer to section 3.4.

- C200210 Cardax FT Prox Tiris Series, Cool Grey**
Door reader without PIN pad. Electrical connection is Cardax FT format.

Status:
Run-out Q4 02

- C200211 Cardax FT Prox Tiris Series, Charcoal**
Door reader without PIN pad. Electrical connection is Cardax FT format.

Status:
Run-out Q4 02

- C200220 Intelligent Door Terminal Tiris Series, Cool Grey**
Door terminal incorporating a TIRIS technology proximity card reader, dot-matrix display and intercom. Electrical connection is Cardax FT format.

- C200221 Intelligent Door Terminal Tiris Series, Charcoal**
Door terminal incorporating a TIRIS technology proximity card reader, dot-matrix display and intercom. Electrical connection is Cardax FT format.



CARDAX ACCESS CARDS AND TOKENS (TIRIS SERIES)

- C196160 Tiris Series Clamshell Card**
Re-programmable card.

- C196110 Tiris Series “keyring” Transponder**
Re-programmable keytag.

- C196140 Tiris Series “under vehicle” Transponder**
Re-programmable transponder.

- C196150 Tiris Series “slim line vehicle” Transponder**
Re-programmable transponder.

- C870570 Ultracard PVC adhesive backed labels**
Please see section 6.

Card Encoding Service
Please see section 5.



4.4 CARDAX MAGNETIC STRIPE READERS & CARDS (SWIPE SERIES)

The Cardax Swipe Readers offer a magstripe technology option.

C190841 Swipe Reader, Cool Grey

Entry or exit magstripe reader with proprietary Cardax output. Electrical connection is Mk4 format.



C190842 Swipe Reader, Charcoal

Entry or exit magstripe reader. Electrical connection is Mk4 format.

C190851 Swipe Plus Reader, Cool Grey

Entry or exit magstripe reader with PIN Pad and LCD display. Electrical connection is Mk4 format.



C190852 Swipe Plus Reader, Charcoal

Entry or exit magstripe reader with PIN Pad and LCD display. Electrical connection is Mk4 format.

MAGNETIC CARDS AND ACCESSORIES

C19242 Hi-Co PVC Mag Stripe Cards, CARDAX pre-printed

High energy magnetic stripe cards with Cardax logo. Packaged in 100's.

C870560 Ultracard PVC Hi-Co Mag Stripe Cards, blank

High energy magnetic stripe blank cards. Packaged in 100's.

C19245 Hi-Co Polyester Mag Stripe Card

Packaged in 100's

Status:
Run-out Q4 01

N/A Card Encoding Service

Please see section 6.

4.5 CARDAX READER ACCESSORIES

C190810 Pre-terminated Cable Assembly – Packs of 10

Cardax Swipe / Prox cable assembly. Consists of connector, rubber grommet and 400mm cable tail.



C190961 Cardax Prox Vandal Cover (Tiris Series)

Cardax Prox Vandal Covers are designed to provide increased protection to the Cardax Prox Tiris Series readers from vandal attack and adverse weather conditions. The Prox Vandal Cover is secured to the building over the top of the reader by security screws.



C1909629 Cardax Prox Plus Vandal Cover (Tiris & Mifare Series)

Cardax Prox Plus Vandal Covers are designed to provide increased protection to the Cardax Prox Plus readers and IDTs from vandal attack and adverse weather conditions.

The Vandal Cover is secured to the building over the top of the reader by security screws. Note that the key pad buttons for the Cardax Prox Plus Vandal Cover are made of stainless steel.

Please mount in a well lit area if the pin pad mode is in operation to ensure the key pad numbers are visible at night.

Status:
Run-out Q4 01



C190962 Cardax Vandal Cover (Tiris, Mifare & 125 Series)

Similar to C1909629 but includes holes for speaker on the front cover to match those of Cardax Prox Plus and IDT 125 Series (C190875, C190876, C200250, C200251).

Status:
Development Q1 03

C41608 Delatching Tool Set

Used to release Cardax readers and the Cardax FT Digital Camera from their bases.



C861115 Wire Terminating Tool (AMP)

Requires appropriate head (C861145 or C861155)

C861145 Terminating Tool Head – 4 Wire (Cardax format)

For wire terminations when installing Cardax Prox readers. Requires terminating tool, Part No 861115.

C861155 Terminating Tool Head – 6 Wire (Wiegand format)

For wire terminations when installing Wiegand format readers. Requires terminating tool, Part No C861115.



C190955 Prox Reader Widebase (Mifare and 125 Series), Cool Grey

Prox Mifare and 125s Series readers (C197615, C190871, C190881) have a base footprint of 56mm wide x 134mm long. The widebase cradle increases the footprint to 100mm wide x 155mm long. Designed to fit directly to most international electrical wall flush boxes.



C190956 Prox Reader Widebase (Mifare and 125 Series), Charcoal

Prox Mifare and 125 readers (C197625, C190872, C190882) have a base footprint of 56mm wide x 134mm long. The widebase cradle increases the footprint to 100mm wide x 155mm long. Designed to fit directly to most international electrical wall flush boxes.

2A9634 Replacement Prox Reader (Tiris Series) Facia Assembly, Cool Grey

Replacement reader facia for Prox (Tiris Series) readers C190821 and C200210

2A9639 Replacement Prox Reader (Tiris Series) Facia Assembly, Charcoal

Replacement reader facia for Prox (Tiris Series) readers C190822 and C200211

C19180 Cardkey Interface

Used with Cardax Universal Reader Interface when connecting to Cardkey readers.

Status:
Run-out Q4 01

5. CARDAX CARD ENCODING

All orders for encoding equipment and software must be accompanied by a completed Encoder Configuration Form. All Cardax formats (125, Mifare, Tiris, and Magstripe) are available. Please complete the Cardax Card Encoding Software Configuration Form (see Appendix).

C196215 Encoder III Software (125, Tiris, Mifare and Magstripe)

Microsoft Windows 2000 based software to encode proprietary Cardax format 125, Tiris, Mifare & magstripe technologies. Includes installation discs and manual.

Includes one facility code. For additional facility codes, please order the Encoder III Software Extension Disk.

Please complete the Encoder III Software Configuration Form (see Appendix).

Use with the appropriate Cardax encoder unit (C197800, C41006, C197100 or C16020).



C196295 Encoder III Software Extension Disk

Disk containing additional facility code(s) for updating the Encoder .INI software file. Only used with C196215.

Please complete the Encoder III Software Configuration Form (see Appendix).

C196290 Encoder II Software Extension Disk

Disk containing additional facility code(s) for updating the Encoder .INI software file. Only used with earlier Encoder II software. Encoder Configuration Form must accompany order.

Status:
Support Q2 05

C197200 Encoder WF Software (Wiegand Format)

Windows based software to encode Prox WF Proximity technology. Packaged installation discs and manual. Connects to the Proximity encoder unit (Part No C197100).

Status:
Support Q2 05

C197900 Encoder WF Software Extension Disk

Disk containing additional facility codes for addition to Encoder software (C197200).

Status:
Support Q2 05

C197800 Encoder Unit (125 Series)

Hardware unit for encoding of 125 Series proximity cards. Requires Cardax Encoder software (Part No 196215). Does not include power pack.



C41006 Encoder Unit (Mifare Series)

Hardware unit for encoding of Mifare Smart Cards. Requires Cardax Encoder software (Part No C196215). Does not include power pack.



C197100 Encoder Unit (Tiris Series)

Hardware unit for encoding of Cardax format. Tiris proximity cards and tokens. Requires Cardax encoding software (Part No C196215). Does not include power pack.



C16020 Encoder Unit (Hi-co Magnetic Stripe) - Cardax Format

Hardware unit for encoding of Cardax format magnetic stripe cards. Requires Cardax encoding software (Part No C196215).



C870570 Ultracard PVC adhesive backed labels (pack of 100)

Adhesive backed, printable label.



ENCODING Card Encoding Service – Cost per Card

If Cardax are to encode cards, add 1 x ENCODING per card: ie. 200 cards = 200 x ENCODING.

6. LEGACY COMMANDER II SYSTEMS: HARDWARE

Cardax Commander II technology will be supported in the Cardax FT system via the Commander Interface. This provides a migration path for existing Cardax Command Centre 50, Cardax Command Centre UNIX and Cardax Command Centre NT sites.

Commander II technology should not be offered to new Cardax FT sites unless otherwise recommended by Cardax.

6.1 CARDAX COMMANDER II

| | | |
|----------------|---|---------------------------------------|
| C191140 | Commander II hardware (For Cardax Command Centre 50 or Cardax Command Centre NT) 230 Volt | Status: Supply Q4 04 Support Q4 09 |
| C191340 | Cardax Commander II hardware (For Cardax Command Centre 50 or Cardax Command Centre NT) 12 Volt | Status: Supply Q4 04 Support Q4 09 |
| | <p>For Cardax Command Centre 50 - Connects up to 50 Cardax units. Contains 4 RAM chips with memory for 11,000 cardholders as standard. Can be expanded to 20,000 with the addition of one set of RAM chips (Part No C15406).</p> <p>Does not support Commander Memory Expansion Board (Part No C15013). EPROMS not included. They accompany Cardax Command Centre 50 software and Commander Licence (Part No C193350).</p> <p>For Cardax Command Centre NT - Field Panel for up to 50 Cardax units. Programmable through connection of dumb terminal (VT100) or connection to Command Centre NT. Contains 4 RAM chips as standard with memory for 10,000 cardholders. Expandable to 21,000 cardholders with the addition of one set of RAM chips (Part No C15406), or 120,000 cardholders with the addition of Commander II Memory Expansion Board (Part No C15013).</p> <p>EPROMS not included. They accompany Cardax Command Centre NT server software licence (Part No C198700).</p> | |
| C15406 | Commander II Cardholder Database expansion memory chips Memory chips that plug into the Commander board. Expands the capacity of the cardholder database. Commander can accept one additional set from Standard. | Status: Supply Q4 04 Support Q4 09 |
| C15004 | Commander II Relay Board Kit 16 relay output board that mounts inside the Commander cabinet. The Commander cabinet can accept only one board. | Status: Supply Q4 04 Support Q4 09 |
| C15012 | Commander II Extension Relay Cabinet and Board A Cabinet with 16 relay output board and cable connection to Commander. Cabinet can house a total of 3 relay output boards. Each Commander II can support a maximum of 5 relay boards. | Status: Supply Q4 04 Support Q4 09 |
| C15005 | Commander II Extension Relay Kit 16 relay board for installation in extension relay cabinet. Must be fitted in an Extension Relay Cabinet to comply with UL Listing. | Status: Supply Q4 04 Support Q4 09 |
| C192040 | Commander II RS232 Cable | Status: Supply Q4 04 Support Q4 09 |
| C198746 | Cardax Command Centre NT Upgrade Commander EPROMs and Licence File | Status: Supply Q4 04 Support Q4 09 |
| C191746 | Cardax Command Centre 50 Upgrade Commander EPROMs and Licence File | Status: Supply Q4 04 Support Q4 09 |
| C15464 | Cardax Command Centre UNIX Commander EPROMs, up to 50 Cardax Units | Status: Supply Q4 04 Support Q4 09 |

6.2 CARDAX UNIVERSAL READER INTERFACE

Interface from door reader to Commander II (Part No C191340). Supports Cardax Mk4 format readers (see section 4 Cardax Readers, Transponders & Accessories) and third party readers. (See tech notes for options and specific reader technologies that can be accepted).

| | | |
|----------------|---|---------------------------------------|
| C190400 | URI Complete – Boxed and fitted with One-door, Smart Series EPROM Universal Reader Interface for Mk4 format Prox and SmartSwipe readers. One-door, Direct Connect software EPROM fitted. | Status: Supply Q4 04 Support Q4 09 |
| C190300 | URI Complete – Boxed and fitted with Two-door, Smart Series EPROM Universal Reader Interface for Cardax Mk4 format Prox and SmartSwipe readers. Two-door, Direct Connect software EPROM fitted. | Status: Supply Q4 04 Support Q4 09 |
| C190200 | URI - Boxed No Software EPROM Universal Reader Interface with no Software EPROM. EPROMS must be ordered separately from the list below. | Status: Supply Q4 04 Support Q4 09 |
| C190100 | URI - Unboxed No Software EPROM Universal Reader Interface without the steel cabinet. No Software EPROM. EPROMS must be ordered separately from the list below. | Status: Supply Q4 04 Support Q4 09 |

SOFTWARE OPTIONS FOR C190200 AND C190100 URI:

| | | |
|----------------|--|---------------------------------------|
| C190751 | One-door, Mk4 format Prox (Mifare, 125, Tiris, Magstripe) 1 door, direct connect, Cardax Mifare, 125, Tiris, Magstripe technologies (vW6.xx//) | Status: Supply Q4 04 Support Q4 09 |
| C190741 | Two-door, Mk4 format Prox (Mifare, 125, Tiris, Magstripe) 2 door, direct connect, Cardax Mifare, 125, Tiris, Magstripe technologies (vW9.xx//) | Status: Supply Q4 04 Support Q4 09 |
| C190721 | One-door, Wiegand technology 1 door, direct connect, Wiegand technology (vW5.xx//) | Status: Supply Q4 04 Support Q4 09 |
| C190731 | Two-door, Wiegand technology 2 door, direct connect, Wiegand technology (vW8.xx//) | Status: Supply Q4 04 Support Q4 09 |
| C190761 | One-door, Turnstile version Turnstile Option. Specify whether Cardax or Wiegand format reader. | Status: Supply Q4 04 Support Q4 09 |
| C190711 | URI EPROM. Pre 350,1 door, direct connect, all supported reader technologies | Status: Supply Q4 04 Support Q4 09 |
| C190713 | URI EPROM Pre 350,1 door, , 4 wire modem connect, all supported reader technologies | Status: Supply Q4 04 Support Q4 09 |

- // Direct connect or standard 4-wire modem operation.
- G/ Glitch mode (for use on 4 wire multi-drop circuits)
- /T Two wire modem
- /M Card number extension (adds a digit in the seventh number field for every subsequent initialisation of different Facility code on individual readers)
- GM Glitch + Card number extension
- /D Duress alarm (unit generates a duress alarm for every granted access)

Other options are available. Please enquire from your nearest Cardax office.

Relay Delay Time (Time between door closed and relay is energised) User Selectable between 20 milliseconds and 5 seconds - in 20 millisecond intervals.

6.3 CARDAX LIFTMASTER III (ELEVATOR CONTROLLER)

| | | |
|---------------|---|---------------------------------------|
| C35230 | Liftmaster III – Complete with Direct Connect software fitted Elevator controller for use with Commander systems. 1 relay board fitted as standard. Will control shafts / levels as follows: One shaft / 72 Levels Two shafts / 40 levels Three shafts / 26 levels Four shafts / 20 levels | Status: Supply Q4 04 Support Q4 09 |
| C35200 | Liftmaster III – No Software For each Liftmaster (part number C35200), order an EPROM from the following list depending on connectivity options. | Status: Supply Q4 04 Support Q4 09 |
| C35430 | Liftmaster III software Standard mode Direct Connect or standard 4 wire modem | Status: Supply Q4 04 Support Q4 09 |
| C35431 | Liftmaster III software Glitch mode (for use on 4 wire multi-drop circuits) | Status: Supply Q4 04 Support Q4 09 |
| C35012 | Liftmaster III Extension Kit Additional cabinet plus one additional 16 relay board. | Status: Supply Q4 04 Support Q4 09 |
| C35270 | Liftmaster III 16 Relay Module 16 Relay board for installation into Liftmaster Cabinet or Extension Kit cabinet. Must be fitted to the Cardax Liftmaster or Extension Kit Cabinet to comply with UL listing. | Status: Supply Q4 04 Support Q4 09 |

6.4 CARDAX SCOUT

| | | |
|---------------|--|---------------------------------------|
| C28151 | Scout II – Complete with Direct Connect software fitted 16 Input and 8 Output panel for connection to Commander II. | Status: Supply Q4 04 Support Q4 09 |
| C28150 | Scout II –No software For each Scout (part number C28150), order an EPROM from the following list depending on connectivity options. | Status: Supply Q4 04 Support Q4 09 |
| C28141 | Scout II software Direct Connect or standard 4 wire modem | Status: Supply Q4 04 Support Q4 09 |
| C28142 | Scout II software Glitch mode (for use on 4 wire multi-drop circuits) | Status: Supply Q4 04 Support Q4 09 |

6.5 COMMUNICATIONS DEVICES

| | | |
|---------------|---|---------------------------------------|
| C17500 | Modem Interface (Boxed) RS232 to Cardax current loop interface. Enables remote Cardax units to be connected to the Commander via a Modem. | Status: Supply Q4 04 Support Q4 09 |
| C17510 | Modem Interface (Unboxed) RS232 to Cardax current loop interface. Enables remote Cardax units to be connected to the Commander via a Modem. | Status: Supply Q4 04 Support Q4 09 |
| C19012 | Intelligent Communications Interface Board (ICI) Facilitates door unit to Commander polling over an exclusive network, or a shared network where the response time does not exceed 600 ms. Check with Cardax for design information and supported networks. | Status: Supply Q4 04 Support Q4 09 |

7. LEGACY COMMANDER SYSTEMS: SOFTWARE

Cardax Commander II technology will be supported in the Cardax FT system via the Commander Interface. This provides a migration path for existing Cardax Command Centre 50, Cardax Command Centre UNIX and Cardax Command Centre NT sites.

7.1 CARDAX COMMAND CENTRE 50

With the launch of the Cardax FT system, Cardax Command Centre 50 is now listed as a Legacy system and no further development is planned.

All orders for upgrades to existing Cardax Command Centre 50 sites must be accompanied by a Cardax Command Centre 50 Configuration Form (see Appendix).

| | | |
|----------------|--|---------------------------------------|
| C193000 | Command Centre 50 Software Upgrade | Status: Supply Q4 04 Support Q4 09 |
| C195610 | Command Centre 50 Expansion Kit Consists of Cardax URI and 2 Cardax Prox 125 Series readers. | Status: Supply Q4 04 Support Q4 09 |
| C195630 | Starter Kit System Expansion License License to expand the Starter Kit up to 50 units. | Status: Supply Q4 04 Support Q4 09 |
| C195620 | Encoded Card Pack (25 Cards) 125 Series Additional cards for Cardax Command Centre 50 Starter Kit systems. | Status: Supply Q4 04 Support Q4 09 |

7.2 CARDAX PHOTOPASS II IMAGE CAPTURE SOFTWARE

| | | |
|----------------|---|---------------------------------------|
| C198110 | PhotoPass II Capture and Print Software Windows 95/98 based software. Packaged installation disks and manual. Serial numbered hardware lock included. | Status: Supply Q4 04 Support Q4 09 |
| C198120 | PhotoPass II Capture, Print and Encode Software Packaged installation disks and manual. Serial numbered hardware lock included. Order must be accompanied by an Encoder Configuration Form. Contact Cardax Technical Support for minimum PC configuration. | Status: Supply Q4 04 Support Q4 09 |

7.3 CARDAX COMMAND CENTRE NT

With the launch of the Cardax FT system, Cardax Command Centre NT is no longer available to new sites. Orders to expand/upgrade existing Command Centre NT sites must be accompanied by a completed Command Centre NT configuration sheet.

| | | |
|----------------|---|---------------------------------------|
| C198701 | Command Centre NT Workstation licence Required to licence Command Centre NT software to allow an additional Workstation connection. | Status: Supply Q4 04 Support Q4 09 |
| C198702 | Command Centre NT Commander licence Required to licence Command Centre NT software to allow additional 50 field device Commander connections. Includes serialised Commander II EPROMS. | Status: Supply Q4 04 Support Q4 09 |
| C198706 | Command Centre NT Photo ID Option Required to licence Command Centre NT to allow Photo ID card design and printing. | Status: Supply Q4 04 Support Q4 09 |
| C198707 | Command Centre NT Magstripe Card Encoding Option Required to licence Command Centre NT to allow the encoding of magstripe cards using a Cardax approved hard card printer and magstripe encoder. Refer to your nearest Cardax Office for details. Also refer to Cardax Encoder III for other encoding options. | Status: Supply Q4 04 Support Q4 09 |
| C198740 | Command Centre NT Software Upgrade Cardax Command Centre NT Software on CD ROM for upgrade to existing site | Status: Supply Q4 04 Support Q4 09 |

7.4 CARDAX COMMAND CENTRE UNIX

With the launch of the Cardax FT system, Cardax Command Centre UNIX is no longer available to new sites. Orders to expand/upgrade existing Command Centre UNIX sites must be accompanied by a completed Command Centre UNIX configuration sheet.

| | | |
|----------------|--|---------------------------------------|
| C31002 | Command Centre UNIX Commander Driver One is required for each additional Commander 11 (Part No 191340) that Command Centre must talk to, over and above the one that the Kernel software talks to. | Status: Supply Q4 04 Support Q4 09 |
| C31003 | Command Centre UNIX Terminal Driver One is required for each additional operator terminal that is required to be connected to Command Centre, over and above the one local and one remote terminals that come with the Kernel software. | Status: Supply Q4 04 Support Q4 09 |
| C31008 | Command Centre UNIX CCTV Interface Provides RS232 connection to certain CCTV switchers. As switcher protocols may change, check with Cardax for supported protocols. | Status: Supply Q4 04 Support Q4 09 |
| C195260 | Cardholder Link Software Operates in Windows / MS Access environment. Connects to Unix Command Centre and permits downloading and uploading of UNIX cardholder database information for bulk changes manipulation or to inter-connect to Cardax PhotoPass. | Status: Supply Q4 04 Support Q4 09 |

8. CARDAX MANUALS

| | | |
|----------------|---|---------------------------------------|
| C209100 | Cardax FT Installation Manual Contains Instructions for installing Cardax FT hardware. | |
| C209000 | Cardax FT Command Centre User Guide | |
| C31306 | Cardax Command Centre 50 Reference Manual | Status: Supply Q4 04 Support Q4 09 |
| C31320 | Cardax Command Centre NT User Guide | Status: Supply Q4 04 Support Q4 09 |
| C31305 | Cardax Command Centre UNIX Reference Manual | Status: Supply Q4 04 Support Q4 09 |
| C16300 | Cardax PhotoPass II Reference Manual | Status: Supply Q4 04 Support Q4 09 |
| C15306 | Cardax Commander II Reference Manual | Status: Supply Q4 04 Support Q4 09 |
| C19331 | System Installation and Servicing Manual – Part 1 Contains System Overview; Commander; Command Centre Unix. | Status: Supply Q4 04 Support Q4 09 |
| C19332 | System Installation and Servicing Manual – Part 2 Contains Door Readers; URI, Liftmaster; Scout | Status: Supply Q4 04 Support Q4 09 |

9. CARDAX MARKETING MATERIAL

All orders for promotional material should be made on a standard purchase order.
Datasheets, including those not printed, are also available electronically from our website: www.cardax.com.

- 6J8083** Cardax Corporate Profile
- 6J0657** Cardax Document Holder
- 3C4386** In-site Study – Lloyds of London
- 3C4387** In-site Study – Shell Australia
- 3C4532** In-site Study – University of New South Wales
- C884890** In-site Study – London Underground

- C884780** Cardax Marketing Info Folder
Folder contains: Cardax Brochures and datasheets, hard copies of Power Point Presentations, Documentation including Migration Information, Guide Specification and Connectivity Guide, Product List and a brief overview of Support Services.
Contains latest Cardax Marketing Info CD ROM.

- C884800** Cardax Marketing Info CD ROM
An easily navigated CD with the following information, (mainly in PDF Format); Cardax Brochures and datasheets, Reference Manuals, Power Point Presentations, information on Cardax FT Command Centre, Guide Specification, Product List and a brief overview of Support Services. (Rec. Pentium 233MHz, 32Mg, SVGA Monitor.)



- C884810** Cardax Migration End User Pack
Pack containing letter, Cardax FT: Your Business Solution document, Case Studies, and Site Preparation document for Cardax customers.

- 6J8101** Cardax FT Series 5 Command Centre datasheet
- 6J8103** Cardax FT Controller 5000 datasheet
- 6J0674** Cardax FT Controller 3000 Series datasheet

Status: Dev Q1 03
Electronic file available

- 6J0666** Cardax FT Reader I/O Interface datasheet
- 6J8106** Cardax FT Universal Reader Interface datasheet
- 6J8104** Cardax FT I/O Interface datasheet
- 6J8105** Cardax FT Relay Interface datasheet
- 6J8108** Cardax FT Intelligent Door Terminal datasheet
- 6J0635** Cardax Swipe Readers datasheet
- 6J0634** Cardax Prox Readers (Mifare Series) datasheet
- 6J8107** Cardax Prox Readers (Tiris Series) datasheet
- 6J0633** Cardax Prox Readers (125 Series) datasheet
- 6J8053** Cardax Command Centre 50 datasheet
- 6J8054** Cardax Command Centre NT datasheet
- 6J8056** Cardax Commander II datasheet
- 6J8057** Cardax Universal Reader Interface datasheet
- 6J8058** Cardax Scout II datasheet
- 6J8059** Cardax Liftmaster II datasheet (Elevator Controller)
- 6J8060** Cardax PhotoPass II datasheet
- 6J8061** Cardax Encoder II datasheet
- 6J7967** Gallagher Group Ltd – Corporate Profile
- 6J0664** Gallagher Group Ltd – Brochure Folder
- 6J6155/1** Gallagher Group Ltd – Corporate Video (PAL format)
NTSC format available on request
- 6J0652** Gallagher Group Ltd – Corporate Video on CD

Runout Q3 02
Runout Q4 01
Runout Q3 02
Runout Q3 02
Runout Q3 02
Runout Q3 02
Runout Q3 02
Runout Q3 02
Runout Q3 02

Promotional Items:

- 6M8059** Cardax Mouse Mat
Blue design with icons, web address, and Cardax logo.
- C884735** Cardax Pen
Clear / white and silver plastic, with black Cardax logo. Writes blue.
- 9S0122** Cardax Pad
A5 lined, with simple Cardax branding across the top.
- C879990** Cardax Show Bag
Black plastic bag, with orange and black Cardax logo.

10. DEMONSTRATION BRIEFCASE

C200500 Cardax FT Demonstration Briefcase

Portable and durable hardcover suitcase containing Cardax FT Controller 5000, Cardax FT Universal Reader Interface, Cardax FT I/O Interface, Cardax FT IDT (Mifare Series) Cardax FT Digital Camera, and an entry/exit Cardax Prox (Mifare Series) reader.

Connects to Laptop or PC running Cardax FT Command Centre Demo (C201501) for demonstrations. Requires an external power supply. Contact your Cardax Account Manager for lead-time details.



11. TRAINING COURSES

Cardax offers training solutions designed to increase client productivity and maximise client return on investment. Please check with your nearest Cardax Office or on line at www.cardax.com for details of training schedules and registration forms.

Should you require information on a customised training course, please email your enquiry to cdxtraining@cardax.com or contact your nearest Cardax Office.

TECHNICAL TRAINING

- C892010 Cardax Commander Technology Hardware** (Duration: 1 day) Status: Legacy Q4 09
Pre-requisite: An understanding of security industry terms and requirements. Basic electronic-electrical knowledge.
Description: A general overview of the Cardax Commander system architecture and hardware products. The course covers installation, cabling, power supply and size requirements, balanced inputs, initialising and fault finding.
- C892020 Cardax Commander Programming** (Duration: 2 days) Status: Legacy Q4 09
Pre-requisite: Have attended C892010. Basic computer keyboard skills.
Description: The course works through the configuration requirements of the Cardax Commander. Covers Commander setup, communications and Commander configuration.
- C892030 Cardax Command Centre 50, PhotoPass II, Encoder III** (Duration: 1 day) Status: Legacy Q4 09
Pre-requisite: Have attended C892020. Basic computer keyboard skills. A basic knowledge of Microsoft Windows 95.
Description: This training module works through the installation, configuration, programming, faultfinding issues and repair utilities associated with Cardax Commander 50, PhotoPass II and Encoder III.
- C892040 Cardax Command Centre UNIX** (Duration: 1 day) Status: Legacy Q4 09
Pre-requisite: Have attended C892020. Knowledge of DOS and Windows systems.
Description: Includes the installation and setup of the Command Centre UNIX. Works through the Command Centre menu structures and support utilities. Covers the UNIX file structure and setting up remote terminals.
- C892050 Cardax Command Centre NT** (Duration: 2 days) Status: Legacy Q4 09
Pre-requisite: Have attended C892020. Knowledge of DOS and Windows systems.
Description: Covers the installation and setup of Command Centre NT. Works through a detailed explanation of Command Centre menus, communications, fault finding processes and support utilities. This module also covers adding Commanders and other devices.
- C892060 Cardax FT Hardware & Communications** (Duration: ½ day)
Pre-requisite: Knowledge of networking and TCP/IP principals. Basic electronics-electrical skills.
Description: A general overview of the Cardax FT system architecture and hardware products. The course includes cabling, power requirements, balanced inputs, unit initialisation and fault finding. Looks at hardware design requirements, what hardware is necessary to support site requirements and why.
- C892070 Cardax FT Installation & Initialisation** (Duration: ½ day)
Pre-requisite: Completed C892060.
Description: Install a working version of Cardax FT and discuss options during each step of the process. Create and initialise hardware within the application.

- C892080 Cardax FT Command Centre**
(Duration: 2 days)
Pre-requisite: Have attended C892070. Have an understanding of Network Administration to and TCP/IP.
Description: Works through an explanation of Command Centre menus, looks at communications in Cardax FT, fault finding functionality and support utilities. During the course, attendees will configure access control, alarm zones and intruder alarm management.
- C892090 Cardax FT Advanced Features**
(Duration: 1 day – Subject To Requirement)
Pre-requisite: Have attended C892080
Description: Covers advanced features available to Cardax FT Command Centre systems for example:- PhotoID; Lift Cars; OPC Bridge; Cardholder Importing; Motion Detection and Encoder III. Advanced training is modularised and can be adapted to meet the training requirement of the client.
- C892100 Cardax FT Commander Migration**
(Duration: ½ day)
Pre-requisite: Have attended C892020 and C892080. Understand Commander technology.
Description: Training module designed to provide the site knowledge requirements and procedural skills to migrate existing Cardax Commander sites to Cardax FT. Training includes site preparation and site audit requirements
- C892110 Cardax FT Dial-Up Networking**
(Duration: ½ day)
Pre-requisite: Have attended C892080. Understand networking, TCP-IP and remote networking principals. Some IP skills, preferably with a recognised network certification.
Description: Training module designed to provide the site knowledge requirements and procedural skills needed to establish dial-up networking communications to the Cardax FT Controller.
- C892120 Cardax FT System Operators**
(Duration: ½ day)
Pre-requisite: An understanding of security systems and access control. Basic PC skills.
Description: Training module designed to provide users with the skills and confidence to monitor a Cardax FT site. System User training can be tailored to meet specific client requirements.
- C892130 Cardax FT System Administrators**
(Duration: 1 day)
Pre-requisite: A good understanding of security systems and access control. A good understanding of the site requirements under their administration. Good PC skills.
Description: Training module designed to provide Administrators of Cardax FT sites with the skills and confidence to maintain a Cardax FT site, including cardholder maintenance and access group design. Administrator training can be tailored to meet specific client requirements.
- C892140 Cardax FT Commander Based Administrators**
(Duration: 1 day)
Pre-requisite: An understanding of security systems and access control. An understanding of the site requirements under their administration. An understanding of Commander based Cardax technology. Good PC skills.
Description: This training module designed to provide Administrators with the skills and confidence to maintain a Cardax FT site, which has been migrated from existing Commander based technology, including cardholder maintenance and access group design. Administrator training can be tailored to meet specific client requirements.

TECHNICAL SALES TRAINING

- C892150** **Cardax FT Technical Sales Presentation**
(Duration: ½ day)
Pre-requisite: Basic understanding of the principles of security.
Description: An introduction to Cardax FT. The module presents the key features of the Cardax FT system and associated devices, communications, integration and product strategy via presentations.

12. TECHNICAL SUPPORT SERVICES

Cardax Technical Support Services provides a range of services to support Cardax systems and products. Cardax is committed to providing technical support solutions to our business partners, delivered in a responsive, timely and professional manner by a technically competent team.

Working proactively with business partners, Cardax technical support can provide the services listed below. To contact Cardax Technical Support Services, email cdxtechnicalsupport@cardax.com or contact your nearest Cardax office.

- C12000** **System Design and Consultation**
Technical Support Services can assist with planning the configuration of a Cardax Security System to meet the client's requirements. We can provide information, answer questions and help with site and installation planning.
- C12050** **Site Commissioning**
Cardax can assist in the site commissioning on request from a distributor. Costs for assistance will depend on the size and details of the site being commissioned. A Cardax Technical Support Engineer can be available on-site to help configure a client's Cardax Security System and ensure it is operational.
- C12100** **Telephone Support**
This service is charged to distributors who call Cardax for support relating to sites migrating from Legacy systems to Cardax FT, and who have not completed Migration Training. Minimum ½ hr charge-out rate applies.
- C12150** **On-Site Technical Support**
In some cases it is difficult to resolve a problem over the telephone. Cardax Technical Services engineers are available to be on-site as required.
- C12250** **Database Conversion**
This service is offered to Business Partners who require a database conversion when an end user client is transitioning from one Cardax system to another where the database structures are incompatible.
- C12200** **Software Customisation**
The Technical Support Team at Cardax has the design, integration and project management expertise to provide a software customisation service. Working closely with our business partners, end user customers and other system providers, Cardax will formulate the requirements, scope / design and cost the project, obtain signoff from all parties with clear expectations on project outputs and delivery.

Section 2 CARDAX OBSOLETE PRODUCTS

IMPORTANT: 'Obsolete products' are products that are no longer available from Cardax. Note that with the launch of the Cardax FT system, Cardax Command Centre UNIX, Cardax Command Centre NT and Cardax Command Centre 50 will no longer be offered to new sites. The server software for these systems is therefore obsolete.

- C201000 Cardax Command Centre FT – Standard**
Server software and MSDE Database for Command Centre FT. Recommended for systems up to 100 FT Controllers and three Operator Workstations where transaction rates are not high. Requires a Site License to enable system operation. Requires Windows 2000 Professional Edition. First 3,000 cardholder licenses provided free of charge.
- C858620 SCO Unix Open Server 5 Operating System – Desktop System**
One is required for each Command Centre
- C858570 PC Xterminal Software**
For installation on remote PCs running Windows 95. Allows presentation of Command Centre GUI on the PC. Refer to Part No C31009 for recommended PC configuration.
- C884430 Software Xremote Host SCO Unix**
For Unix CC. Allows running of remote graphics over serial link. Requires Open Server 5 Enterprise System-refer to Cardax for pricing.
- C198700 Cardax Command Centre NT Server Software**
Cardax Command Centre NT server software to run on a Microsoft Windows NT operating system. Provides connectivity to one Commander (50 field devices) and one Operator Workstation plus associated manuals.

Includes serialised Commander II EPROMS and site licence. Refer to Cardax Support for details of costs should assistance be required with software loading and system configuration.
- C31060 UNIX Command Centre Warm Standby**
A software and labour charge for installation of Warm Standby software that links to Command Centre PC and regularly backs up activity and other volatile information. Travel and other costs additional. Does not include the PC.
- C31001 Cardax Command Centre UNIX Kernel Software**
Basic software to provide a text based command centre. Allows connectivity to one Commander and two text terminals. Requires SCO UNIX Open Server 5 operating system. Refer to Part No 31040 for recommended PC configuration.
- C31005 Cardax Command Centre UNIX Graphics Software**
A software module that is added to Command Centre Kernel software to provide a graphical user interface.
- C193350 Command Centre 50 Software**
Command Centre 50 software to run under Windows 95/98. CD and manual. Licence (Activation Key) and serialised Commander II EPROMS included. Connects to one Commander II (Part No C191140).
- C195600 Cardax Command Centre 50 Starter Kit**
Consists of Cardax Command Centre 50 (10 unit license), Cardax Commander, Cardax Command Centre 50-Commander cable, Cardax URI, 2 Prox (125 Series) readers and 25 proximity cards.
- C196210 Cardax Encoder II software (Mag/Tiris/Mifare)**
- C15013 Commander II Memory Expansion Board**
- C19006 Cardax III Swipe Reader**
Entry or Exit reader when connected to Cardax URI or an Exit reader when connected to a Cardax III Swipe reader and PIN.
- C19008 Cardax III Swipe Reader and PIN Remote Fascia**
Magnetic swipe reader with integrated PIN pad. Connects to Cardax URI.

- C19222 Cardax III Glass Mount Box**
Mounting box for Cardax III Plus PIN reader when mounting on Glass.
- C19224 Cardax III Surface Mount Box**
Mounting box for Cardax III Plus PIN reader where they cannot be flush mounted.
- C19050 Cardax III Bi-directional Polling Unit (PCB Only)**
Plugs into a Scout or URI PCB to enable bi-directional polling from Commander.
- C19060 Cardax III Reader Bi-directional Polling Unit (Boxed)**
Connects between Cardax III Reader and the polling loop to enable bi-directional polling from Commander.
- C19001 Cardax III Swipe Reader and PIN**
Entry swipe reader with PIN pad. Accepts push button or swipe reader exit and 5 auxiliary inputs. All intelligence exists in the reader. Can operate as standalone or connected to Commander. Appropriate software must be ordered from the following:
C19280 Standalone Software (ensure programming cards are ordered, Part C19244)
C19371 Commander Direct Connect software
C19372 4-wire modem software
- C19004 Cardax Insertion Reader**
Appropriate where space is limited or profile is important. Connects to URI.
- C19280 Cardax III Standalone Software**
- C19007 Cardax III Swipe Reader and PIN standalone**
- C19371 Cardax III Direct Connect Software**
- C19244 MasterCard Wallet and Standalone reader programming cards**
Includes 16 pre-encoded and hot-stamped cards for encoding Cardax III Standalone Readers
- C19372 4-wire Modem Software**
- C858690 Modem – 4 Wire**
Commander to Cardax Unit comms via 4 wire multi-dropped network.
- C883430 Cardax Brochure Pack**
- C883630 Cardax Flyer**
Brief overview of Cardax Command Centre 50 and Cardax PhotoPass. Folds to standard US letter size for cost effective mailing to first time leads.
- C884550 Cardax Presentations CD-ROM**
Contains voice over Power Point presentations on Cardax and Cardax systems. (Rec. Pentium 233MHz, 32Mg, SVGA Monitor.)
- C883900 Cardax Presentation Folder**
- C883450 Cardax Product Catalogue Brochure**
- 6J8050 Cardax SmartProx Readers datasheet**
- 6J8052 Cardax SmartSwipe datasheet**
- 6J8051 Cardax SmartCard Range datasheet (A4 only)**

APPENDICES

1. Cardax Product Approvals List

Cardax Product Approvals List

Cardax products conform to regulatory listings as required for our global markets.
This document provides information on the standards we comply with, and tests carried out.

The CE Mark is used to indicate compliance with the EU EMC Directive.

The C-Tick Mark is used to indicate compliance with the NZ/Australian Directive.

The FCC Label is used to indicate compliance with FCC Regulations.

The UL is used to indicate those Cardax products that are UL recognised.



| Cardax FT | CE | C✓ | FCC | UL |
|--------------------------------------|----|----|--------------------|--------------------|
| Cardax FT Controller 3000 | ✓ | ✓ | ✓ | Submission pending |
| Cardax FT Controller 5000 | ✓ | ✓ | ✓ | Submission pending |
| Cardax FT Reader I/O Interface | ✓ | ✓ | ✓ | Submission pending |
| Cardax FT Strike Controller | ✓ | ✓ | ✓ | Submission pending |
| Cardax FT Universal Reader Interface | ✓ | ✓ | ✓ | Submission pending |
| Cardax FT I/O Interface | ✓ | ✓ | ✓ | Submission pending |
| Cardax FT Relay Interface | ✓ | ✓ | ✓ | Submission pending |
| Cardax FT Digital Camera | ✓ | ✓ | ✓ | Submission pending |
| Cardax FT IDT (125 Series) | ✓ | ✓ | Submission pending | Submission pending |
| Cardax FT IDT (Mifare Series) | ✓ | ✓ | | |
| Cardax FT IDT (TIRIS Series) | ✓ | ✓ | | |



| Cardax Readers | CE | C✓ | FCC | UL |
|----------------------------------|-----------|-----------|------------|--------------------|
| Cardax Prox Plus (125 Series) | ✓ | ✓ | ✓ | Submission pending |
| Cardax Prox Plus (Mifare Series) | ✓ | ✓ | | |
| Cardax Prox Plus (TIRIS Series) | ✓ | ✓ | | |
| Cardax Prox (125 Series) | ✓ | ✓ | ✓ | Submission pending |
| Cardax Prox (Mifare Series) | ✓ | ✓ | | |
| Cardax Prox (TIRIS Series) | ✓ | ✓ | ✓ | ✓ |
| Cardax Prox LR (TIRIS Series) | ✓ | ✓ | | ✓ |
| Cardax Swipe | ✓ | ✓ | | ✓ |
| Cardax Swipe Plus | ✓ | ✓ | | ✓ |



| Cardax Commander | CE | C✓ | FCC | UL |
|--|-----------|-----------|------------|-----------|
| Cardax Commander II (12v) | ✓ | ✓ | ✓ | ✓* |
| Cardax Comander II (mains) | ✓ | ✓ | | |
| Cardax Commander II Extension Relay Cabinet & Board | ✓ | ✓ | ✓ | ✓* |
| Memory Expansion Board | ✓ | ✓ | | |
| Cardax Liftmaster II | ✓ | ✓ | ✓ | ✓* |
| Cardax Liftmaster II Extension Kit | ✓ | ✓ | ✓ | ✓* |
| Cardax Universal Reader Interface | ✓ | ✓ | ✓ | ✓ |
| Cardax Scout II | ✓ | ✓ | ✓ | ✓ |
| Comms Interface | ✓ | ✓ | | ✓ |
| CardKey Interface | ✓ | ✓ | | ✓ |
| Cardax III Reader | ✓ | ✓ | | ✓ |
| Cardax III Basic Reader | ✓ | ✓ | | ✓ |
| Cardax III StandAlone Reader | ✓ | ✓ | | ✓ |
| Intelligent Communications Interface | ✓ | ✓ | | ✓ |

* *Modular Listing: allows the product to have a variable number of relay boards fitted.*

UL Listings

Underwriters Laboratories Inc. (UL) is an independent, not-for-profit product safety testing and certification organization.

Please contact Cardax to determine specific UL listing for each product.

The following points apply to UL294 listed equipment:

1. Power Supply

Please note that AlarmSaf MPS-U12030-B03-UL Power Supply must be used with the Cardax System to comply with UL.

2. Other Compliance Requirements

- The Cardax system can only be used for Access Control.
- To handle the transient tests, some readers need to use a special lead which contains transient suppressors. These will be supplied with the Cardax Prox, Cardax Prox Plus, and Prox WF readers.

Testing Standards

The following section outlines the standards that products are generally tested to:

All Cardax Products comply with the following standard concerning immunity:

EN 50130-4: Alarm systems – Part 4: Electromagnetic compatibility
Product family standard: Immunity requirements for components of fire, intruder, and social alarm systems.

All Cardax Products comply with the following standards concerning emissions:

EN 55022: Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement.

AS/NZS 3548: Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement.

CISPR 22: Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement.

The majority of Cardax products comply with the following rules and regulations concerning emissions:

CFR47 Part 15: Radio frequency devices
(Not all products have yet been registered with the FCC).

Cardax proximity readers additionally comply with the following standard concerning immunity and emissions:

ETS 300 683: Radio Equipment and Systems (RES);
Electromagnetic Compatibility (EMC) standard for Short Range Devices (SRD) operating on frequencies between 9kHz and 25GHz.

2. Cardax Legacy Systems: Upgrade and Crossgrade Pricing

Cardax Legacy Systems: Upgrade and Crossgrade Pricing

Upgrade Pricing Policy: Commander Based Legacy Systems

This policy applies to Command Centre UNIX, Command Centre NT, Command Centre 50, Cardholder Link, PhotoPass and Commander Software. It does not apply to crossgrades from these systems to Cardax FT Command Centre (see Crossgrade Policy below).

- Software upgrades between consecutive versions of each product line will be charged at 70% off the list price for the respective product - less your Cardax Distributor discount.
- Clients wishing to upgrade more than two version releases will incur the full List Price; eg. if upgrading from vQ 3.0x to vQ 3.3x then the client would be required to pay full list price. If upgrading from vQ 3.0x to vQ 3.1x then the client would pay the list price less 70%.
- All Hardware EPROM Upgrades (except Commander) are at the EPROM list price - less your Cardax Distributor discount.
- All upgrade orders for Cardax Command Centre UNIX, Cardax Command Centre NT, Cardax Command Centre 50, Commander or PhotoPass II must include full site details, including the serial number of the software being upgraded, on the appropriate Cardax Upgrade Order Form included in Appendix.

Crossgrade Pricing Policy when migrating from Cardax Encoder II to Cardax Encoder III

- This policy applies to Cardax Encoder II software.
- Cardax has re-developed Encoder software to provide:
 - a 32 bit version of Encoder to enable it to reside on a Microsoft Windows 2000 operating system
 - the ability to encode Cardax 125 Series Prox cards using the Cardax Encoder Unit (125 Series)
- When a client migrates from Cardax Encoder II to Cardax Encoder III the cost is 40% off the list price.

Crossgrade Pricing Policy when migrating from Cardax Command Centre UNIX, Cardax Command Centre NT, Cardax Command Centre 50 to Cardax FT Command Centre

- The migration path for Cardax Command Centre UNIX and NT systems is to Cardax FT Series 5 Command Centre - Unrestricted. For sites with up to 128 doors, the Series 5 Command Centre – 128 Doors option is available.
- The migration path for Cardax Command Centre 50 systems will typically be to Cardax FT Series 3 Command Centre – 64 Doors. For CC50 sites that have less than 16 doors the Series 3 Command Centre - 16 Doors option is available. For sites wanting to combine multiple CC50 systems, the Series 5 options are also available.
- The crossgrade pricing policy is based on the premise that existing clients pay a proportion of the cost when migrating to comparable Cardax FT functionality. This translates into a cost of 40% off the List Price for relevant Cardax FT Command Centre Series server software, licenses and software options that were previously available and licensed in Cardax legacy systems, for example, PhotoID and Workstation Licenses.
- Any features not previously available, or not licensed in Command Centre versions of UNIX, NT or 50 will attract full List Price should the client elect to take advantage of the additional functionality.
- Any new features not yet released in Cardax FT Command Centre, for example Guard Tour, will be subjected to the same rationale as detailed above. For example, Guard Tour is currently available in Cardax Command Centre NT. When Guard Tour becomes available in Cardax FT Command Centre, Cardax Command Centre NT clients migrating to Series 5 Command Centre will pay 40% off the Guard Tour software option cost. Cardax Command Centre UNIX and Cardax Command Centre 50 clients will pay full List Price.
- Your Cardax distributor discount applies to crossgrade pricing.

Cardax has developed tools to assist with data migration. These are available free of charge.

Cardax has prepared Migration Packs for dealers and clients to provide information on the benefits of migrating to Cardax FT Command Centre and the migration process. The dealer pack includes an Estimator spreadsheet to help you establish the software migration costs when migrating from Cardax Command Centre UNIX, Cardax Command Centre NT or Cardax Command Centre 50 to Cardax FT Command Centre.

Once system migration needs have been identified for a site, dealers are required to complete the relevant Software Configuration Form when placing their order. This is included in this Product List, the Migration Pack, or by emailing sales@cardax.com for copies of the appropriate software configuration forms. It can also be automatically generated from the Estimator spreadsheet.

Full details of how the crossgrade policy is applied when migrating from legacy systems are captured in the tables following.

1 Migrating from Cardax Command Centre NT to Cardax FT Series 5 Command Centre.

Please note that Cardax Command Centre NT sites must first upgrade to Cardax Command Centre NT v3.3 before migrating to Series 5 Command Centre. This is due to the fact that the migration tools are based on the v3.3 data structure.

Clients will not incur the standard upgrade cost when upgrading from Cardax Command Centre NT v3.2 to Cardax Command Centre NT v3.3 if they are migrating to Series 5 Command Centre at the same time.

For sites licensed with Cardax Command Centre NT Magstripe Card Encoding Option, Cardax Encoder III is available at 40% off the Cardax Encoder III list price.

| Cardax FT Series 5 Command Centre | Crossgrade Cost (% off List Price)* |
|--|-------------------------------------|
| Server Software | |
| Cardax FT Series 5 Command Centre – 128 Door <i>or</i> Cardax FT Series 5 Command Centre – Unrestricted | 40% off List Price |
| Licenses | |
| Commander Interface | Full List Price |
| Cardholders (between 15001–24500 inclusive) | 40% off List Price |
| Workstations >1 | 40% off List Price |
| System Division >1 | Full List Price |
| Communication Server >1 | Full List Price |
| Software Options | |
| CCTV Interface | 40% off List Price |
| Photo ID | 40% off List Price |
| Cardholder Import | 40% off List Price |
| Log Printer Interface | Full List Price |
| Encryption | Full List Price |
| Contact ID Interface | Full List Price |
| Migration Tools | Free |

* Where available and licensed in Command Centre NT

Migrating from Cardax Command Centre UNIX to Cardax FT Series 5 Command Centre.

Please note that there are no pre-requisites to upgrade to later versions for Cardax Command Centre UNIX sites wishing to upgrade to Series 5 Command Centre.

Where sites are using Cardax PhotoPass II to encode magstripe cards, Cardax Encoder III is available at List Price less 40%.

| Cardax FT Series 5 Command Centre | Crossgrade Cost (% off List Price)* |
|--|-------------------------------------|
| Server Software | |
| Cardax FT Series 5 Command Centre – 128 Door <i>or</i> Cardax FT Series 5 Command Centre – Unrestricted | 40% off List Price |
| Licenses | |
| Commander Interface | Full List Price |
| Cardholders (between 15001–24500 inclusive) | 40% off List Price |
| Workstations >1 | 40% off List Price |
| System Division >1 | Full List Price |
| Communication Server >1 | Full List Price |

| Software Options | |
|-------------------------|--------------------|
| CCTV Interface | 40% off List Price |
| Photo ID** | 40% off List Price |
| Cardholder Import | 40% off List Price |
| Log Printer Interface | 40% off List Price |
| Encryption | Full List Price |
| Contact ID Interface | Full List Price |
| Migration Tools | Free |

* Where available and licensed in Command Centre UNIX (includes both text and graphic workstations)

** For sites using Cardax PhotoPass

Migrating from Cardax Command Centre 50 to Cardax FT Series 3 Command Centre.

Please note that there are no pre-requisites to upgrade to later versions for Cardax Command Centre 50 sites wishing to upgrade to Cardax FT Command Centre.

For Cardax Command Centre sites with less than 16 doors, the Cardax FT Series 3 Command Centre – 16 Doors option is available.

For sites wanting to combine multiple CC50 systems, the Cardax FT Series 5 Command Centre options are available.

Where sites are using Cardax PhotoPass II to encode magstripe cards, Cardax Encoder III is available at List Price less 40%.

| Cardax FT Series 3 Command Centre | Crossgrade Cost (% off List Price)* |
|---|--|
| Server Software | |
| Typically Cardax FT Series 3 Command Centre – 64 Doors All Cardax FT Series Command Centre options available | 40% off List Price |
| Licenses | |
| Commander Interface | Full List Price |
| Cardholders (between 15001–24500 inclusive) | 40% off List Price |
| Workstations >1 | 40% off List Price |
| Systems Division >1 | Full List Price |
| Communication Server >1 | Full List Price |
| Software Options | |
| CC TV Interface | 40% off List Price |
| PhotoID** | 40% off List Price |
| Cardholder Import | Full List Price |
| Log Printer Interface | Full List Price |
| Encryption | Full List Price |
| Contact ID Interface | Full List Price |
| Migration Tools | Free |

* Where available and licensed in Command Centre 50 (includes main workstation and operator terminals)

** For sites using Cardax PhotoPass

3. Cardax Terms and Conditions

Cardax (International) Ltd - Terms And Conditions

The following are the terms and conditions under which Cardax (International) Ltd ("Cardax") sells and licenses its products (equipment, software and charges) ("Products") in New Zealand and overseas. Separate Terms and Conditions apply in Australia.

1 TAXES

Prices as quoted are exclusive of Goods and Services Tax, Sales Tax, Stamp Duties, Use Tax, Value Added Tax and all other taxes or levies of any kind whatsoever. The Customer shall be responsible for payment of all such taxes, and it shall be the Customer's responsibility to obtain any exemption from any such tax or levy.

2 ORDER ACCEPTANCE

No order shall be deemed to be accepted until written notification of acceptance is given by Cardax to the Customer or its agent.

3 DELIVERY

3.1 Delivery of the Products shall be deemed to take place when the goods are delivered by Cardax or its agent to the location specified for each order by the Customer or in the case of export, to the Customers Shipping Agent.

3.2 Cardax shall use its best endeavours to comply strictly with realistic delivery dates specified by the Customer and accepted by Cardax.

3.3 Cardax will not be held liable for loss or damage caused by its non-acceptance of orders or by any delay in making delivery of the Products pursuant to accepted orders.

4 PAYMENT

4.1 Payment for the Products shall be made to Cardax by the 20th of the month following the date of delivery of the Products, unless alternative payment terms are agreed in writing between Cardax and the Customer. In the event of payment not being received by this date, default interest by way of penalty for late payment will be charged monthly commencing from the due date of payment until actual payment. Such interest will be calculated at the National Bank of New Zealand Limited indicated lending rate plus 6%.

4.2 At Cardax's option, delivery of any consignment of the Products may be delayed if any payment due by the Customer is more than (10) days overdue for payment.

5 TITLE

5.1 Title to the Products passes to the Customer on payment of the full invoiced price of the products.

5.2 Notwithstanding any period of credit, legal and beneficial ownership of any and all goods supplied shall remain with Cardax until payment in full is made for them and for all other goods supplied by Cardax to the Customer.

5.3 If payment is overdue in whole or in part in respect of any of the Products supplied, Cardax may (without prejudice to any of its other rights) recover or resell them or any of them (notwithstanding any reasonably incidental consequential loss or damage in respect of Products, which have become constituents of other goods) and may enter upon the Customer's premises by its servants or agents for that purpose.

6 PASSING OF RISK

The risk of loss or damage to the Products shall pass to the Customer upon delivery, and it shall be the Customer's responsibility to insure the Products from that time.

7 PRICE VARIATION

7.1 Cardax shall be entitled to increase the price of the Products should any of the following events occur from the time Customer orders the Products and before delivery of the Products

- (a) increase in rates of exchange, manufacturers or suppliers prices or charges and/or wages and material costs paid or incurred by Cardax;
- (b) the imposition of any levy, surcharge, duty or tax affecting the goods;
- (c) any adverse change in the availability or supply of material goods.

8 WARRANTY

8.1 Equipment Warranty

- 8.1.1 For the duration of the warranty period defined in clause 8.1.2 Cardax warrants the Products manufactured and sold by Cardax to be free from defects in workmanship or material.

Cardax's responsibility under this warranty shall be either to repair or replace, at Cardax's option, any defect in the Products which fails during the warranty period, provided such defect does not arise from:

- (a) the Products being improperly or negligently operated or handled by the Customer or any other person
 - (b) any accident
 - (c) the Products not being installed by the Customer or any other person in accordance with any operating instructions or recommendations issued by Cardax
 - (d) the Products being in any way altered or modified by the Customer or any other person, unless such alteration or modification was done with the authorisation of Cardax.
- 8.1.2 (a) The Products are warranted against defects in workmanship or material for a period of:
- (i) one (1) year from date of dispatch by Cardax, provided that the allegedly faulty Product or component thereof is returned freight paid to Cardax or to one of Cardax's accredited repair facilities
 - (ii) thirty (30) days for parts supplied or repaired under warranty
- (b) Cardax's responsibility under this warranty shall be to either repair or replace at Cardax's option during Cardax's normal working hours any Product or component thereof which fails during the warranty period because of a defect in workmanship or material.
- All replaced Products or components thereof shall become Cardax's property.
- (c) Cardax will perform the warranty at Cardax's factory or at a Cardax accredited repair facility. Customer must return the Products only in accordance with Cardax's shipping instructions.

- 8.1.3 If Cardax or its agent determines that the Products are not defective within the terms of the warranty, the customer shall pay Cardax or its agent all costs of handling, transportation and repair at Cardax's or its agent's then prevailing rates.

- 8.1.4 If in any case Cardax determines in its sole discretion that the nature of the defect precludes remedy by way of repair or replacement of the Products or part thereof, Cardax reserves the right to satisfy its warranty obligation in full by refunding the purchase price of the Products, but in no event shall Cardax's liability under this warranty exceed the purchase price for the Products or part thereof.

8.2 Software Warranty

Cardax warrants that each program functions in accordance with the appropriate specification produced by Cardax for a period of ninety (90) days. Cardax's sole obligation to the Customer under this warranty is to use its best efforts to correct or replace the program so that it performs in accordance with the specification. Cardax does not warrant that the functions contained in a program will meet the Customer's requirements, or that the operation will be uninterrupted or error free.

8.3 General

The stated warranties are contingent upon proper treatment and use of the Products and maintenance of a safe and suitable site, and implementation of procedures designed to prevent or detect product malfunction which are defined in the appropriate Cardax Product Manuals.

Cardax gives no warranty expressly or impliedly as to description, quality, merchantability, fitness for any particular purpose or any other feature of the Products and software and all such warranties and any other warranties whether expressed or implied by law or otherwise are excluded from this contract.

These warranty provisions are subject to and shall not derogate from any mandatory legal provisions to the contrary; notably they shall not exclude, restrict or modify any Condition or Warranty mandatorily imposed by any Consumer Protection or Manufacturers' Warranties Legislation.

9. SOFTWARE

- 9.1 All the programs supplied by the Principal are and remain the intellectual property and Copyright of the Principal forever. No part of any program or accompanying documents may be copied or modified or distributed, transmitted, transcribed, stored in a retrieval system or translated into any human or computer language by the Distributor or any other person, in any form or by any means, electronic, mechanical, magnetic manual or otherwise, or disclosed to third parties without the express written permission of the Principal, except insofar as this constitutes a normally necessary and integral step in the operation of the Products supplied.
- 9.2 In no event will Cardax be responsible to any Customer, or any other person whatsoever for any damages arising from performance or non-performance of the programs, or for any damages caused by the failure of the Customer to perform the Customer's responsibilities, or for any loss of business, loss of profit or other consequential damages.
- 9.3 In line with industry practice, Cardax reserves the right to either accept or refuse requests to change any standard program. In the event that software is first made by Cardax in the performance of a service for a Customer, Cardax shall be

free to use for any purpose, any concepts, ideas, techniques or general software developed by Cardax during the performance of the services.

- 9.4 Any third party software supplied by Cardax which is subject to a third party Licence Agreement is supplied subject to the terms and conditions of such Licence Agreement accompanying such software. The Customer will not copy, use, disclose, or transfer the software except as provided in the applicable Licence Agreement.
- 9.5 Cardax gives no warranty expressly or impliedly as to description, quality, merchantability, fitness for any particular purpose, or any other feature of Cardax software, and all such warranties and any other warranties whether expressed or implied by law or otherwise are excluded from any contract.

Cardax reserves the right to revise programs or associated documentation and to make changes from time to time in the content thereof without obligation to Cardax to notify any person or organisation of such revision or changes.

9.6 Licence of Software

On supply of Software Products no title to or ownership of any software is transferred to the Customer or any other person. Cardax grants to the Customer a non-exclusive, non-transferable licence to use the Software Products as an end user on the terms of clauses 9.6.1 to 9.6.6 below:

- 9.6.1 that the Customer undertakes not to copy, reproduce, translate, adapt, vary or modify the Software Products nor make the same available in any form to any third party other than to the Customer's employees or agents directly concerned with the Customer's licensed use of the Software Products;
- 9.6.2 that the Customer undertakes to use the Software Products only on the single Central Processing Unit (CPU) or equipment configuration specified in the Software Products Description on which the Software Products are first installed and may be copied in whole or in part only for use on that CPU or specified equipment configuration except that the Software Products may be used on another single CPU on a temporary basis during a malfunction of the original CPU which caused the Software Products to be inoperable;
- 9.6.3 that the customer undertakes not to remove, add to, change or otherwise tamper with any Copyright Notice, legend or logo appearing on the Software Products or the medium upon which it resides;
- 9.6.4 that the Customer acknowledges that all information, data drawings, software listings, source or object code or any other information whatsoever relating to the Software Products provided or imparted by the Distributor or the Principal is confidential (Confidential Information) and the Customer undertakes that it will not at any time disclose such information to any person, other than to its personnel for the purpose of the normal operation of the Software Products and the Customer shall ensure that such personnel maintain such information in the strictest confidence;
- 9.6.5 that the Customer shall not itself or through any third party at any time sub-licence or otherwise deal with the Software Products nor have any software or other program written or developed for itself based on the Software Products or on any Confidential Information supplied to it by the Customer or the Principal;
- 9.6.6 that the Customer acknowledges that any and all of the Copyrights, Patents, trademarks, trade names and other intellectual property rights used or embodied in the Software Products belong to the Principal and that the Customer shall not at anytime dispute the Principal's ownership of such rights.

10 PATENTS AND COPYRIGHTS

Cardax shall defend, at its expense, any claim (or suit) brought against Customer alleging that any Products furnished hereunder infringe a Patent or Copyright, and shall pay all costs and damages finally awarded, provided that Cardax is given prompt written notice of such claim and is given information, reasonable assistance, and sole authority to defend or settle the claim. In the defence or settlement of the claim, Cardax may obtain for a Customer the right to continue using the Products, replace or modify the Products so that they become non-infringing or, if such remedies are not reasonably available, grant Customer a credit for the Products as normally depreciated and accept their return. Cardax shall not have any liability if the alleged infringement is based upon the use or sale of the Products in combination with other Products or devices not furnished by Cardax. Cardax disclaims all other liability for Patent and Copyright infringement, including any incidental or consequential damages.

11 CARDAX PROPERTY

Documentation, schematics, maintenance materials, tools, hardware, Site Management Guides, test equipment, diagnostic hardware and software and associated media which have not been expressly sold or licensed to Customer, shall remain the exclusive property of Cardax and shall be for the sole use of Cardax.

12 CANCELLATION OF ORDERS

No order once accepted by Cardax may be cancelled or varied by the Customer except by written agreement of Cardax.

13 RETURN OF PRODUCTS

No products can be returned to Cardax for credit unless prior written agreement is obtained from Cardax.

14. LIMITATION OF LIABILITY

Customer's right to recover damages to property caused by Cardax's fault or negligence shall be limited to Fifty Thousand New Zealand Dollars (NZ\$50,000). Cardax will not be liable in any event for any damages resulting from loss of data, profits, use of Products or for any incidental or consequential damages, even if advised of the possibility of such damage. This limitation of Cardax's liability will apply regardless of the form of action, whether in contract or tort. Any action against Cardax must be brought within twelve (12) months after the cause of action accrues.

Notwithstanding the provisions of clause 14, Cardax shall not be liable for any special or consequential damages to the Customer or to any end users of the Products or to any other person.

These provisions are subject to and shall not derogate from any mandatory legal provisions to the contrary.

15 GENERAL PROVISIONS

An order or contract will become binding only when a written acceptance of the Customer's order is sent to the Customer by Cardax, or when the Products are supplied by Cardax in accordance with Customer's order. The order or contract, including the applicable Product description(s), will constitute the entire Agreement between the parties with respect to the subject matter of the contract. These terms and conditions shall prevail notwithstanding any other terms and conditions on any order submitted by Customer.

Neither party may assign the order or contract unless mutually agreed.

All rights and remedies conferred under the contract or by any other instrument or law shall be cumulative and may be exercised singularly or concurrently. Failure by either party to enforce any contract term shall not be deemed a waiver of future enforcement of that or any other term. The provisions of the contract are declared to be severable.

Cardax (Australia) Pty Ltd ACN 002 132 943 General Conditions Of Trade

1. Preliminary and Definitions

1.1 In these conditions:

"**Company**" means the Gallagher Group company supplying the goods, services or quotation.

"**Customer**" means the organisation, company or person to whom the goods, services and/or quotation are supplied by the Company.

"**Gallagher Group**" includes Gallagher Group Ltd, Sunplas Engineering (82) Ltd, PEC Fuel Pumps Ltd, Franklin Machinery Ltd, Cardax International Ltd, Cardax (Australia) Pty Ltd, Gallagher Finance & Management Ltd, and Gallagher Security (Int) Ltd.

"**Title Time**" means, in respect of any good, the time at which the contract price for the goods and all other monies owing by the Customer to the Company has been paid in full.

1.2 These conditions apply to the supply of goods, services or quotations by the Company. By accepting such supplies from the Company, the Customer agrees to comply with these conditions.

2. Availability

2.1 All goods are offered subject to availability.

3. Pricing

3.1 All goods and services shall be at prices current at the date of acceptance of the order. Prices do not include GST which shall be shown separately on invoices.

4. Terms of Payment

4.1 Where credit is extended to any Customer, payment for the goods and services supplied shall be made on the 20th day of the month following delivery unless stated otherwise on the front of the invoice. In the event of payment not being received by this date, default interest will be charged daily commencing from the due date of payment until actual payment. Such interest will be calculated at the Bank of New Zealand Limited indicated lending rate plus 6%.

5. Title and risk

5.1 The Company retains full legal and equitable title to goods supplied to the Customer until the Title Time, and then title passes to the Customer. This is so even if the Customer enhances or changes the goods or performs work on them.

5.2 Until the Title Time, the Customer holds the goods as fiduciary for and as bailee for the Company.

5.3 If the Company has not been paid for any goods in full by the due date, the Company may take back possession of that good or of any other goods to which the Company retains title, and for that purpose may enter any premises occupied by the Customer, detach goods from any other goods to which they may be attached, or detach goods from any land to which they may be fixed.

5.4 The Company must credit the Customer with the lesser of the invoiced price or the resale value of any good of which the Company takes back possession, and the Customer must pay, and the Company may debit the Customer with, the expenses of repossession and resale such as transport and storage. The Customer must pay, and indemnify the Company against, any loss or claim in connection with detaching a good from other goods or from land.

5.5 The goods are at the Customer's risk and the Customer accepts all risk of loss of or damage to any good however caused (including through negligence of the Company or of any employee or agent of the Company) from the time of the first to occur of:

- (a) the physical delivery of the good to the Customer;
- (b) the physical delivery of the good to a carrier (even if the carrier has not been nominated or retained by the Customer); or
- (c) the passing of property and ownership to the Customer.

5.6 From the time a good is at the Customer's risk, the Customer must indemnify the Company against, and pay to the Company on demand the amount of, any loss or claim incurred in connection with the handling, transport, storage, display or use of the good.

5.7 Until the Title Time, the Customer must:

- (a) store the goods separately from its own goods or goods of any other person so they are clearly identifiable as the property of the Company and as goods included in a particular invoice or delivery;
- (b) properly look after the goods and store them properly (including safe from heat, moisture, compression and impact damage); and
- (c) fully insure the goods against loss or damage noting the interest of the Seller as owner on the policy, and give the Seller on request a copy of the policy and evidence of its currency.

5.8 Until the Title Time, the Customer may sell any goods in the ordinary course of its ordinary business. Any sale of the goods by the Customer shall be as a fiduciary of the Company and the proceeds of any such sale shall be held by the Customer on trust for the Company separate from other monies of the Customer notwithstanding that any period of credit extended to the Customer may not have expired.

6. Cancellation and Returns

6.1 The Customer is not entitled to cancel any order which has been accepted by the Company.

6.2 The Customer shall not be entitled to return any goods or parts, unless the Company breaches a warranty in this agreement.

6.3 The Company may charge the Customer for all costs and expenses incurred by the Company in respect of any cancelled order accepted by the Company.

7. Warranty

7.1 The Company warrants that at the time goods become at the Customer's risk in accordance with clause 5.5, the goods will be in good working order and will perform in accordance with their specification.

- 7.2 For each sale, the Company will notify the Customer of the period during which the warranty in this agreement will apply (the "Warranty Period").
- 7.3 The warranty only applies to goods manufactured by the Company.
- 7.4 If:
- (a) during the Warranty Period the goods fail to perform in accordance with their specifications due to faulty workmanship or materials;
 - (b) the Customer notifies the Company in writing within 10 days of discovering the defect; and
 - (c) the Customer, at its cost, returns the defective goods to the Company,
- the Company must (at its option) repair or replace the defective goods.
- 8. Liability**
- 8.1 The Company shall not be bound by any representation or warranty made by the Company, its employees or agents unless set out in writing and the Customer agrees that it has purchased the goods solely in reliance on the Customer's judgement.
- 8.2 The Company disclaims any and all liability for damages or consequential loss whether such shall arise out of breach of contract, failure to remedy any breach of contract, tort or otherwise.
- 8.3 Except as otherwise set out in clause 7, the Company shall not be liable in any way to the Customer and all conditions, representations, warranties and undertakings whether implied by statute or common law are hereby excluded provided that if by reason of law the Company is obliged to pay damages to the Customer (it being the intention that no such damages may be recovered) the same shall be limited to the Customer's actual loss or the cost of the goods, whichever is less.
- 9. Governing law**
- These conditions are governed by the law in force in New South Wales.

4. Software Configuration Forms

Cardax FT Command Centre Software Configuration Form

Customer Information

| | |
|---|--------------------------|
| Cardax Region: | Dealer Name: |
| Contact Name: | Email address / Fax No.: |
| Site Name: | |
| Physical Address: | |
| Country: | |
| Type of Business: <small>(bank, vehicle manufacturer etc)</small> | Purchase Order No.: |
| New Site: <input type="checkbox"/> Enhancements to an existing site: <input type="checkbox"/> If an existing site please provide Site Number: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | |

Cardax FT Command Centre Server Options (please select one)

| | |
|---|---|
| C201311 Series 3 Command Centre – 16 Doors <input type="checkbox"/> | C201520 Series 5 Command Centre – 128 Doors <input type="checkbox"/> |
| C201300 Series 3 Command Centre – 64 Doors <input type="checkbox"/> | C201500 Series 5 Command Centre – Unrestricted <input type="checkbox"/> |
| C201501 Demo Software <input type="checkbox"/> | C201810 Server CD only <input type="checkbox"/> |
| C201820 Server CD + User Guide <input type="checkbox"/> | |

C201900 Cardax FT Command Centre Site License

| Select items as required | Included with server software | Additional required |
|--|---|---------------------|
| Number of Cardholder Records | (15,000) | |
| Number of Controller 3000s | Two Controller licenses are included with the server software. Please specify the combination of Controller 3000/5000 licenses to be included with the server and any further additional licenses required. | |
| Number of Controller 5000s | | |
| Number of Workstations (i.e. simultaneous operator sessions) | (1) | |
| Number of Commander Interfaces (includes Commander EPROM's C15466) | (0) | |
| Number of additional System Divisions | (1) | |
| Number of additional Communications Servers | (1) | |

Options: Check boxes for required options.

| | | |
|--|--|--|
| High Level Encryption <input type="checkbox"/> | CCTV Executable and Interface <input type="checkbox"/> | Remote Alarm Management <input type="checkbox"/> |
| Cardholder Import Interface <input type="checkbox"/> | PhotoID <input type="checkbox"/> | Log Printer <input type="checkbox"/> |
| HID card data format enabled* <input type="checkbox"/> | | |

Mac Addresses:

| | | | | | | |
|----|-----|-----|-----|-----|----------------------|----------------------|
| 1. | 0 0 | 9 0 | 1 D | 0 0 | <input type="text"/> | <input type="text"/> |
| 2. | 0 0 | 9 0 | 1 D | 0 0 | <input type="text"/> | <input type="text"/> |

Commander EPROM Serial Numbers. (if used):

| | | | |
|--------|----------------------|--------|----------------------|
| Cmdr 1 | <input type="text"/> | Cmdr 2 | <input type="text"/> |
|--------|----------------------|--------|----------------------|

Following Section is for Cardax Use Only -

| | |
|--|----------------------------------|
| Facility Code: <input type="text"/> | Crypt Seed: <input type="text"/> |
| S/O: <input type="text"/> | Date: <input type="text"/> |
| Operator: <input type="text"/> | |
| Cardax FT Server Software Version supplied: <input type="text"/> | |

* For orders from: USA, Canada, Austria, Germany, France, Great Britain, Sweden and Switzerland – please contact Cardax first.
Note: This form must accompany the Purchase Order

Cardax Command Centre 50 Software Configuration Form
(FOR UPGRADES)

Section A

| | |
|--|--------------------------|
| Cardax Region: | Dealer Name: |
| Contact Name: | Email address / Fax No.: |
| Site Name: | |
| Physical Address: | |
| | |
| | Country: |
| Type of Business: <small>(bank, vehicle manufacturer etc)</small> | Purchase Order No: |

Section B

| | |
|---|--|
| Existing Site: <input type="checkbox"/> | |
| If this is an existing site please provide Site Number: | |
| Existing Software Version: | |
| Existing Commander Serial Number: | |

Section C – (Cardax Use Only)

| | | |
|---|-------------|-------------|
| <i>Cardax Command Centre 50 Version Number:</i> | | |
| <i>New Commander Serial No.:</i> | | |
| <i>Commander License (Activation Key):</i> | | |
| <i>S/O:</i> | <i>W/O:</i> | <i>E/A:</i> |
| <i>Despatch details:</i> | | |
| <i>Completion Date:</i> | | |
| <i>Entered in Database:</i> | | |

Note: This form must accompany the Purchase Order

Cardax Command Centre NT Software Configuration Form (FOR UPGRADES)

Section A

| | |
|--|--------------------------|
| Cardax Region: | Dealer Name: |
| Contact Name: | Email address / Fax No.: |
| Site Name: | |
| Physical Address: | |
| | |
| | Country: |
| Type of Business: <small>(bank, vehicle manufacturer etc)</small> | Purchase Order No: |

Section B – Existing Site:

| | | | |
|---|------------------------------|-------------------------------|---|
| Existing Site Number: | | | |
| Existing Version Number: | | | |
| Do you require a Version Upgrade? | No: <input type="checkbox"/> | Yes: <input type="checkbox"/> | |
| Do you required additional Workstation Licences? | No: <input type="checkbox"/> | Yes: <input type="checkbox"/> | No. of Workstation Licenses required - Part No. C198701 <input style="width: 40px;" type="text"/> |
| Do you required additional Commander Licences? | No: <input type="checkbox"/> | Yes: <input type="checkbox"/> | No. of Commander Licenses required - Part No. C198702 <input style="width: 40px;" type="text"/> |
| Add Photo ID option Part No. C198706: | No: <input type="checkbox"/> | Yes: <input type="checkbox"/> | |
| Add Magstripe card encoding option Part No. C198707: | No: <input type="checkbox"/> | Yes: <input type="checkbox"/> | |
| Please state language required: | | | |

Section C – (Cardax Use Only)

| | | |
|--------------------------|-----------------------------|------------------|
| <i>CCNT Site No.:</i> | <i>Region Code:</i> | <i>Language:</i> |
| <i>S/O:</i> | <i>W/O:</i> | <i>E/A:</i> |
| <i>Despatch details:</i> | <i>Crypt Seed:</i> | |
| <i>Completion Date:</i> | <i>Entered in Database:</i> | |

Note: This form must accompany the Purchase Order

Cardax Command Centre UNIX Software Configuration Form (FOR UPGRADES)

Section A

| | |
|--|--------------------------|
| Cardax Region: | Dealer Name: |
| Contact Name: | Email address / Fax No.: |
| Site Name: | |
| Physical Address: | |
| | |
| | Country: |
| Type of Business: <small>(bank, vehicle manufacturer etc)</small> | Purchase Order No: |

Section B – Existing Site:-

| | | | |
|---|------------------------------|-------------------------------|--|
| Existing Site Serial Number: | | | |
| Existing Software Version: | | | |
| Do you require additional Licences? (please indicate in the boxes below the quantities you require) | | | |
| Do you require additional Commander Licences? | No: <input type="checkbox"/> | Yes: <input type="checkbox"/> | No. of Commander Licenses required: <input type="text"/> |
| Do you require additional Poll Processes? | No: <input type="checkbox"/> | Yes: <input type="checkbox"/> | No. of Poll Processes required: <input type="text"/> |
| Do you require additional Terminal Drivers? | No: <input type="checkbox"/> | Yes: <input type="checkbox"/> | Total No of Text: <input type="text"/> |
| | | | Total No of Graphics: <input type="text"/> |
| Do you require additional printers? | No: <input type="checkbox"/> | Yes: <input type="checkbox"/> | No. of Printers required: <input type="text"/> |
| Do you require a password: | No: <input type="checkbox"/> | Yes: <input type="checkbox"/> | |
| Contact Person: | Expiry date (yymmdd): | | |

Section C – (Cardax Use Only)

| | | |
|-------------------|-----------------------|----------------------|
| Due Date: | New Software Version: | Authorised by: |
| S/O: | W/O: | E/A: |
| Despatch details: | | Quantity of discs: |
| Completion Date: | | Entered in Database: |

Note: This form must accompany the Purchase Order

Cardax PhotoPass II Software Configuration Form (FOR UPGRADES)

Section A

| | |
|--|--------------------------|
| Cardax Region: | Dealer Name: |
| Contact Name: | Email address / Fax No.: |
| Site Name: | |
| Physical Address: | |
| | |
| | Country: |
| Type of Business: <small>(bank, vehicle manufacturer etc)</small> | Purchase Order No: |

Section B

| | |
|--|--|
| <i>New System:</i> <input type="checkbox"/> | <i>Upgrade to Existing System:</i> <input type="checkbox"/> |
| If this is an upgrade to an existing system please provide your Existing S/W Version Number: | |
| Existing Dongle No: | |
| For a new site, please indicate if you require the following:- | |
| Do you require PhotoPass II, image capture and print software (C198110) (will encode magnetic stripes to non-Cardax format): | No: <input type="checkbox"/> Yes: <input type="checkbox"/> |
| Do you require PhotoPass II, with image capture, printing and Cardax magnetic stripe encoding. (C198120) | No: <input type="checkbox"/> Yes: <input type="checkbox"/> |
| If this site operates Cardax Access Control, please supply the following information: | |
| Facility Code: | Crypt Code: |

Section C – (Cardax Use Only)

| | | |
|---------------------------------------|-----------------------------|-------------|
| <i>New S/W Version No:</i> | | |
| <i>New Dongle No:</i> | | |
| <i>New Serial No (if applicable):</i> | | |
| <i>Region Code:</i> | | |
| <i>S/O:</i> | <i>W/O:</i> | <i>E/A:</i> |
| <i>Despatch details:</i> | | |
| <i>Completion Date:</i> | <i>Entered in Database:</i> | |

Note: This form must accompany the Purchase Order

**Cardax Encoder III Software Configuration Form
Cardax Positive Authorisation Systems
(INCLUDES UPGRADES)**

Section A (C196215 Encoder III Software)

| | |
|--|--------------------------|
| Cardax Region: | Dealer Name: |
| Contact Name: | Email address / Fax No.: |
| Site Name: | |
| Physical Address: | |
| | |
| | Country: |
| Type of Business: <small>(bank, vehicle manufacturer etc)</small> | Purchase Order No: |

Section B (C196295 Encoder III Software Extension Disk)

One facility code is included with Cardax Encoder III Software C196215. Please indicate the number of additional Facility Codes you require (maximum of 30 numbers will be allocated per system):

If the Facility codes are to be used with existing encoder software, please advise:

| | |
|--------------------------------|-----------------------------|
| Existing Software Version No.: | Existing Dongle Serial No.: |
|--------------------------------|-----------------------------|

Section C (Cardax Use Only)

| | Facility Codes | Crypt Seed Codes | | Facility Codes | Crypt Seed Codes |
|----|----------------|------------------|----|----------------|------------------|
| 1 | | | 16 | | |
| 2 | | | 17 | | |
| 3 | | | 18 | | |
| 4 | | | 19 | | |
| 5 | | | 20 | | |
| 6 | | | 21 | | |
| 7 | | | 22 | | |
| 8 | | | 23 | | |
| 9 | | | 24 | | |
| 10 | | | 25 | | |
| 11 | | | 26 | | |
| 12 | | | 27 | | |
| 13 | | | 28 | | |
| 14 | | | 29 | | |
| 15 | | | 30 | | |

| | | | |
|----------------------|------|------------------------|--|
| New S/W Version No.: | | New Dongle Serial No.: | |
| S/O: | W/O: | E/A: | |
| Despatch details: | | Region Code: | |
| Completion Date: | | Entered in Database: | |

Note: This form must accompany the Purchase Order

Cardax Card Encoding Software Configuration Form Cardax Positive Authorisation Systems

Section A

| | |
|--|--------------------------|
| Cardax Region: | Dealer Name: |
| Contact Name: | Email address / Fax No.: |
| Site Name: | |
| Physical Address: | |
| | |
| Country: | |
| Type of Business: <small>(bank, vehicle manufacturer etc)</small> | Purchase Order No: |

Section B

Are these cards for a new site? (Please indicate with an "X") **Yes:** **No:**

(If this is a new site and/or you do not have a Facility Code or Crypt Seed number available for allocation, please mark the **Yes** box. Cardax will allocate a code for you.)

A card encoding fee will apply for each card encoded.

| Card Technology | Number Range | | | | |
|---|--------------|----------------|------|----|-------------|
| | Part Number | Total Quantity | From | To | Issue Level |
| Cardax Tiris 'Clamshell' Card Transponder | C196160 | | | | |
| Cardax Tiris Key Ring Transponder | C196110 | | | | |
| Cardax Tiris 'Under' Vehicle Transponder | C196140 | | | | |
| Cardax Tiris 'Slim Line' Disc Vehicle Transponder | C196150 | | | | |
| Cardax Mifare – Printable, no mag stripe | C196350 | | | | |
| Cardax Mifare – Pre-printed Cardax Logo, no Mag Stripe. | C196360 | | | | |
| Cardax Mifare – Printable with Magstripe | C196370 | | | | |
| Cardax Mifare – Pre-printed Cardax logo with Magstripe | C196380 | | | | |
| Ultracard PVC Hi-Co Magstripe Card | C870560 | | | | |
| Cardax 125 Prox/Magstripe Card | C196470 | | | | |
| Cardax 125 Half Clamshell Card | C196410 | | | | |
| Cardax 125 Prox Card ISO | C196450 | | | | |
| Cardax 125 Prox Keyfob | C196440 | | | | |

| | |
|--|--------------------|
| Facility Code Number: | Crypt Seed Number: |
| If the numbers you enter are outside of a range allocated to you, there may be delays in processing your order while this is resolved. | |
| Distributor – Important to Note: We recommend that you maintain a careful record of the Facility Codes for future reference. | |

Section C – (Cardax Use Only)

| | | |
|--------------------------|-----------------------------|-------------|
| <i>S/O:</i> | <i>W/O:</i> | <i>E/A:</i> |
| <i>Despatch details:</i> | <i>Region Code:</i> | |
| <i>Completion Date:</i> | <i>Entered in Database:</i> | |

Note: This form must accompany the Purchase Order

cardax