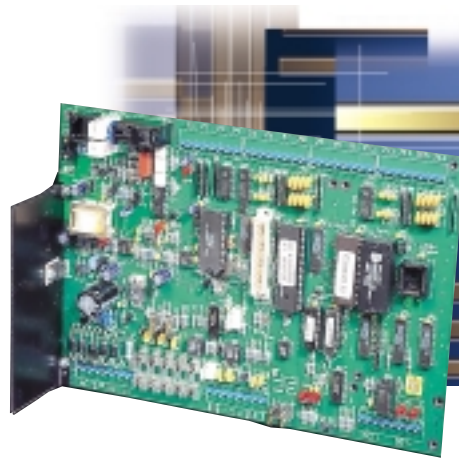


Concept 3000/Concept Access 4000 Control Module 993001/994001

The Control Module is the heart of the Concept 3000 and Concept Access 4000 system. This unit integrates Access Control, Security Management and Building Automation features, stores all data, communicates with all other modules connected to the system LAN and reports alarms and system activity to the Central Station.

- System Inputs monitor LAN status, fuses, AC power, battery condition, cabinet tamper, siren tamper, door status, panic and communications problems on all modules where applicable.
- Expandable from 2 Auxiliaries to 10 Auxiliaries
- On-board diagnostic LEDs assist with commissioning and troubleshooting
- Input test facilities for automatic and/or manual testing
- Up to 250 Areas can be used to partition the system
- Inputs can be assigned to multiple Areas
- Different processing requirements may be specified for each Area to which a particular input is assigned
- Siren Tone selection allows "Bell", "Sweep", "Fire" or "Evacuation" sounds to be defined separately for Alarm and Tamper conditions in each individual Process Group
- Various Memory Configuration options available (selectable by Installer)
- Upload / Download capability for programming, control and monitoring
- Default settings and the use of programming Groups and Lists simplify initial set-up and operation

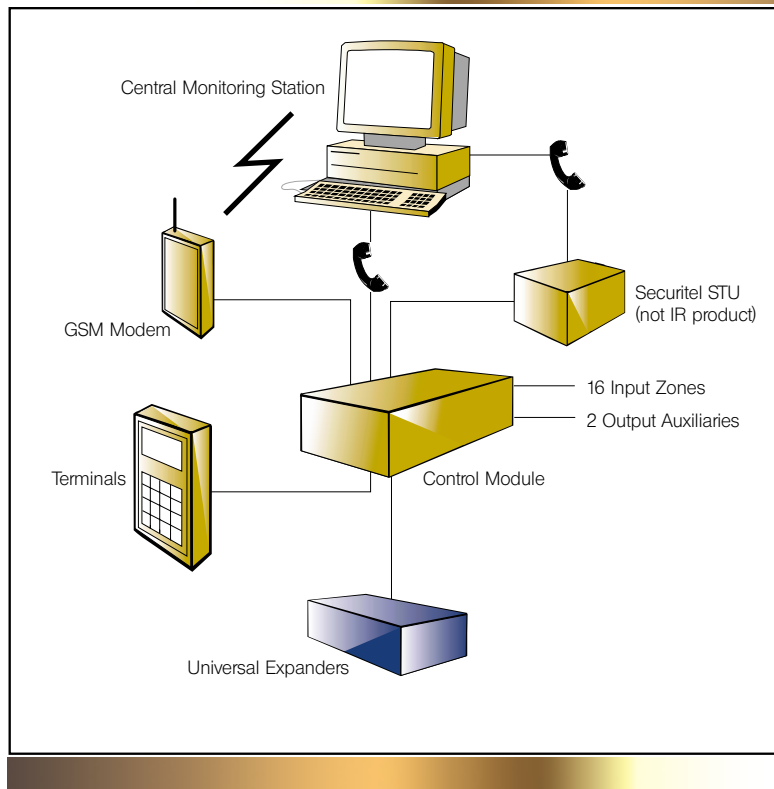


- Multiple Reporting Formats; Contact ID, Securitel, IRfast, EarthNet Direct Line, GSM Modem and more to follow
- Multiple Comms Tasks allow a variety of reporting options to operate simultaneously
- Flexible reporting configuration for all formats allows Multi-break, Look Ahead, Open/Close options, Single Hit, Area Still Open and Area 24Hr Off options to be set independently for each Comms Task
- Alarm mapping options allow customization of Contact ID point numbers on Input reporting
- Connection options for Printer, Computer, Monitor, External modem or GSM Modem
- Automatic telephone line testing
- Extensive review memory saves up to 6500 events

Concept Access 4000

Special Features

- Interface to ACCEPT, Windows (R) based System Management Software.
- Sophisticated Door interlocking features.
- Options for tens of thousands of Card Users
- Zoned Airconditioning control logic
- Enhanced building automation logic features


SPECIFICATIONS
Physical

Cabinet dimensions (mm)	415(L) x 225(W) x 100(D)
PCB dimensions (mm)	250(L) x 180(W) x 72(D) (Inc. Heat sink)
Installation Environment	0°-40°C @ 15% to 85% Relative humidity (non-condensing)

Electrical

Power Supply Input	16V AC 1.5A from Plug Pack supplied
Operational Current Min:	210mA with 4 port UART fitted and no external load,
Battery Capacity	12V 6.5AH Sealed Lead Acid Battery
Fuse Protection	Separate fuses for Battery, Siren 1, Siren 2, LAN & Detector Power

Inputs

Zone Inputs	16 (Expandable to over 2000 with additional modules)	
System Inputs	Cabinet tamper	Internal siren tamper
	External siren tamper	AC fail
	Low battery	LAN fuse tamper
	Detector fuse tamper	LAN communication status
	Battery test fail	Line fault
	UART 1 problem	UART 2 problem
	UART 3 problem	UART 4 problem
	Zone self test fail	Time report
	Manual trigger	Communications Backup
	Communications fail	Phone
	Module substitution	

Outputs

Siren Outputs	2 (Internal & External) Max Load: 2 x 8 Ohm, 10 Watt siren speakers
Physical Auxiliaries	2 (Expandable to 10 using the 8 Auxiliary Expander board-993055)
Max. switchable current per Aux	Aux. 1&2: 500mA Aux. 3-10: 100mA
Relays	0 (Expandable to 8 with optional 8 Relay Expander board-993082C - replaces Auxiliaries 3-10)
Max. combined output current	LAN+ Detector+ & Auxiliaries must not exceed 800mA. NOTE: May be increased to 1.5A by using optional 16V 2.5A in-line transformer instead of plug pack and shorting LK201
Total Auxiliaries	32 NOTE: Refer to information supplied with Detectors for current consumption requirements

Ordering Options

Concept 3000	993001	993201 with anti-surge protection
Concept Access 4000	994001	994201 with anti-surge protection

Control Module Options

8 Auxiliary Output Expander Board 993055

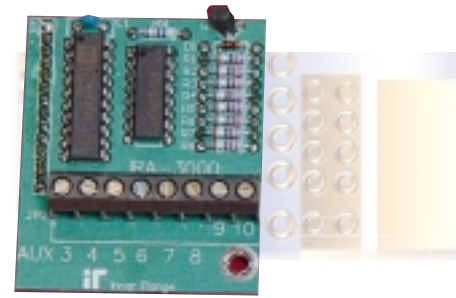
This expansion board provides an additional 8 Auxiliary outputs on a Concept 3000 or Access 4000 Control Module, complementing the existing 2 Control Module Auxiliaries. The board plugs directly into the Control Module, thus eliminating the need for any additional enclosure or interconnection cable.

- 8 Open Collector Outputs
- Each output capable of switching up to 100mA
- Connects directly to the Concept 3000 / Access 4000 Control Module
- No additional enclosure required

Single, Dual and Quad Port UART Boards 993065 / 993066 / 993068

This module provides up to 4 high speed, software configurable, serial ports to allow connection of peripheral serial devices to the Concept 3000 / Access 4000 Control Module. Specific cables are available for connection to printers, modems or personal computer serial ports. The module is available configured for 1, 2 or 4 ports. A supporting Inner Range Gal (U5) administrates the number of operational ports.

- Available in Single, Dual or Quad port Versions
- Connects directly to the Concept 3000 / Access 4000 Control Module
- Interface cables available for connection to PC's, Laptop Computers, Serial Printers and Securitel Interfaces
- Allows communication speeds of up to 19200 baud



SPECIFICATIONS	
Physical	
PCB Dimensions (mm)	56(L) x 47(W)
Installation Environment	0°-40°C @ 15% to 85% Relative humidity (non-condensing)
Electrical	
Power Supply Input	Via Host Control Module
Operational Current Min:	20mA
Physical Auxiliaries	8
Max. switchable current per Auxiliary	100mA
Max. combined output current	To be included within the constraints of the Host Control Module
Ordering Options	
Standard	993055



Important Note:

This module is designed for permanent installation. It must not be connected or disconnected whilst the Control Module is powered up. If a temporary interface is required, Inner Range recommends the use of the "Port 0" interface 993030

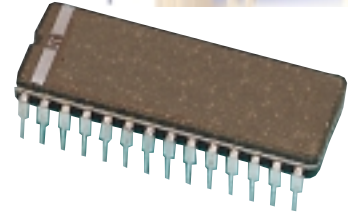
	Single Port	Dual Port	Quad port
Physical			
PCB Dimensions (mm)	135(L) x 93(W)	135(L) x 93(W)	135(L) x 93(W)
Electrical			
Power Supply Input	Via Host Control Module	Via Host Control Module	Via Host Control Module
Operational Current Min:	20mA	20mA	20mA
Serial RS232 Ports	1	2	4
Max. Baud Rate	Generally 19200 Baud (combined baud rate for all ports in use)		
Ordering Options			
Standard	993065	993066	993068

Expanded Memory Chips

993014 / 993015 / 0993016

Expanded Memory Chips provide the option of 128K or 512K memory on a Concept 3000 or 512K memory on an Access 4000 Control Module. 128K typically allows up to 2000 User Codes, 128 Areas, 32 Doors, 64 Terminals and 64 Expanders. 512K typically allows up to 4000 User Codes, 250 Areas, 128 Doors, 99 Terminals and 64 Expanders. These figures are based upon "Standard" memory configuration.

An Expanded Memory Chip is sold as a set which also includes a replacement GAL chip. This GAL chip must be substituted for the existing GAL in order for the Control Module to effectively use the Expanded Memory.



The option for expanded memory ensures a Concept 3000 or Access 4000 system will be ready for future additions and enhancements.

A replacement 32K Memory chip set is also available.

	32K	128K	512K
Ordering Options			
Standard	993014	993015	993016

Upgrade Kits for Control Modules 994106 / 994107

A cost effective Upgrade Kit is available with which to upgrade an existing Concept 3000 Control Module to that of the Access 4000 system. The upgrade chip set safeguards your initial investment whilst making available a plethora of additional and enhanced system features at a very attractive price. (Requires minimum of 128K memory)

	Type "0" PCB	Type "1" PCB
Ordering Options		
Upgrade Kit for Concept 3000 to Access 4000 Conversion	994106	994107