

Internetworking System Controller 3 (ISC3) FE3-NIADAE

Features

- The ISC3 is an application on the Ascom ELISE3
- Interfaced with the teleCARE M LON via the Second Generation LON Piggy Back 2 (LPB2)
- Gateway to the Ascom communication platform
- Embedded database for project configuration data
- Allows call and system information logging
- Compatible with the Ascom modular cables used to interconnect Ascom central units
- Modular jack sockets for 100baseT Ethernet connections (LAN 1 and LAN 2)
- Detachable connectors for easy installation and service



Description

The teleCARE M Internetworking System Controller (ISC3) can be wall mounted (horizontally or vertically) or 19 inch rack mounted using special brackets. It consists of the Ascom ELISE3 module with the addition of the second generation teleCARE LPB2 piggy back board mounted, which is used to interface the ELISE3 module with the teleCARE M LON.

The ISC3 is an ELISE3 application. The ELISE3 module serves as the interface to a 100base T Ethernet LAN and/or the Ascom communication platform via the A-bus. The ELISE3 contains a Linux based web server which runs in flash memory.

The ISC3 logs and stores system information from the teleCARE M LON. An internal watchdog process monitors the ISC3 functionality and resets it if an error is detected.

The teleCARE Installation Program (TIP) is used to setup the parameters of the ISC3.

Application

The main task of the ISC3 is call handling which enables calls from the teleCARE M system to be transferred to pagers and/or the Ascom DECT telephones.

The system information which is logged by the ISC3 can be accessed using the Nurse Station Server (NSS) or a PC.

The ISC3 can also serve as a controller for corridor displays (old model), requires an "RS232 to RS422 converter".

Technical specifications are listed on the following page

Technical Specifications

Physical

Dimensions:	220 x 199 x 44 mm (W x D x H)
Weight:	1520g
Material:	Body: Sheet steel / Front cover: PC/ABS
Colour:	Body: grey / Front cover: white

Functional

Supply voltage:	100 to 240V/AC \pm 10%, 50/60Hz or 12V/DC to 24V/DC (-25% / +20%)
Current consumption:	max. 275 mA at 100 to 240V/AC max. 1A at 12V/DC
Memory:	256 MB SDRAM 1GB NAND flash (for software applications) 8MB Serial data flash (for booting purposes) 1GB SD card slot (currently not software supported)

Inputs / Outputs (I/O)

Serial ports:	2 x RS232 D-sub-9 male connectors for external interfaces 2 x modular jacks (RJ45) for System 900 A-bus 1 x screw terminal for System 900 A-bus 1 x screw terminal for LON bus
LAN:	2 x 10baseT or 100baseT Ethernet (RJ45)
USB ports:	2 x USB Host port 2.0 full speed 1 x Mini-USB_B Device port 2.0 full speed
Error relay output:	Configurable solid state relay Max. contacts current: 100 mA, 30 V DC max.
Auxiliary outputs:	2 x galvanically isolated, open collector 100 mA max., 30 V DC max.
Auxiliary inputs:	2 x digital inputs, 30V/DC max.
DC Power Input	1 x DC power input screw terminal for 12-24 V DC external power supply, or 12 V DC lead battery max. 10 Ah

Environment:

Operating temperature: 0 to +40°C.
Storage temperature: -25°C to +55°C
Relative humidity: 30 - 85% (non condensing).
RoHS compliant - Pb Free
Enclosure protection rating: IP30

Specifications are subject to change without notice

Accessories

Standard 19 inch rack kit:	660324 - Short left/right brackets for two front mounted Elise3 and one long bracket for one front mounted Elise3
Reverse 19 inch rack kit:	660325 - Short bracket for two reverse mounted Elise3 and one long bracket for one reverse mounted Elise3

Compliance with Regulations and Standards

Europe:

EU Directives:	2004/108/EC (EMC) 2006/95/EC (LVD) Eco Design 2005/32/EC RoHS compliant
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Product Marking:



EMC:	EN 55022:2007 (Class B) EN 55024:2003 EN 60945:2002 ¹ EN 50121-3-2:2006 EN 60533:1999 ² EN 60601-1-2:2004
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Safety:	EN 60950-1:2006
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USA and Canada:

Product Marking:



EMC/Radio:	FCC 47CFR Part 15, Subpart B
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Safety:	CSA/UL 60950-1
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Australia:

Product Marking:



EMC:	EN 55022 and EN 55024
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Safety:	FCC 47CFR Part 15, Subpart B
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¹ = 12 - 24 V DC input should be used to meet the regulatory needs.

² = 12 - 24 V DC input should be used on deck, bridge and in special power distribution zones (100 - 240 V AC input can be used in general power distribution zones) to meet the regulatory needs.