

DATA SHEET

Ascom Elise3 – Embedded Linux Server

Features

- Embedded solid state server for Linux based applications
- Management via the LAN or via the mini-USB device port
- Designed to be mounted on a wall (horizontally or vertically) and to fit in 19" rack
- Tri-colour LEDs for status and power indications
- Buttons for switching the operation mode and for controlled restart of the module



TECHNICAL SPECIFICATIONS

Physical

Dimensions (h × w × d):	44 × 220 × 199 mm
Weight:	1465 g for Elise3 Lite 1520 g for Elise3 Standard
Material:	Sheet metal/plastic
Color:	Gray/white

Functional

Supply voltage:	100-240 V +/-10%, 50/60 Hz 12 - 24 V DC (-25% and +20%) (Under normal conditions a 12V battery with 10 Ah will guarantee 24 hours backup)
Current consumption:	Max. 275 mA at AC input (100-240 V +/-10%, 50/60 Hz) Max. 1 A at DC input (12 V)

Environmental

Operating temperature:	0°C to +40°C
Storage temperature:	-25°C to +55°C
Relative humidity:	30-85% (non condensing)
Enclosure protection:	IP30
Immunity to electromagnetic fields:	10 V/m
Immunity to ESD:	6 kV contact discharge and 8 kV air discharge

Memory

SDRAM:	256 MB
NAND flash:	1 GB (for the SW application)
Serial data flash:	8 MB (for booting purposes)
SD-card ^a :	1 × slot for an SD card (Secure Digital non-volatile memory)

Accessories

660324	Standard 19" rack kit: small left/right brackets for two front mounted Elise3 modules and one big bracket for one front mounted Elise3 module
660325	Reverse 19" rack kit: small left/right brackets for two reverse mounted Elise3 modules and one big bracket for one reverse mounted Elise3 module
660433	SD-card ^a Industrial grade, 1 GB

a. Support of SD card is product dependent

Specifications are subject to change without notice

I/O (Input/Output)	Elise3 Lite	Elise3 Standard	Elise3 LON
Serial ports: 2 × RS232 (D-sub-9 male connectors), used for external interfaces ESPA, Ascom Line protocol, TAP, etc.	-	Yes	Yes
2 × modular jacks (RJ45) used for System 900 A-bus:	-	Yes	-
1 × screw terminal used for System 900 A-bus:	-	Yes	Yes
1 × screw terminal used for LON bus:	-	-	Yes
LAN: 2 (One for future use, not yet software supported) × 10baseT or 100baseT Ethernet (Modular jack, RJ45)	Yes	Yes	Yes
USB ports: 2 × USB Host port 2.0 full speed	Yes	Yes	Yes
1 × Mini-USB_B Device port 2.0 full speed:	Yes	Yes	Yes
Error relay output: Configurable solid state relay – make/break operation, used for fault actions and error indications, 100 mA, 30 V DC	Yes	Yes	Yes
AUX outputs: 2 × galvanically isolated open collector outputs, 100 mA, 30 V DC	Yes	Yes	Yes
AUX inputs: 2 × digital inputs	Yes	Yes	Yes
Power supply: 1 × screw terminal for a 12-24 V DC external power supply, or 12 V DC lead battery max. 10 Ah	Yes	Yes	Yes

Compliance to European regulations and standards

EU directives:	2014/30/EU (EMC) 2014/35/EU (LVD) 2011/65/EU (RoHS)
Product marking:	
EMC:	EN 55032 EN 55024 EN 60945 ^a EN 50121-3-2 EN 60533 ^b EN 60601-1-2
Safety:	EN 62368

a. 12 - 24 V DC input should be used to meet the regulatory needs.

b. 12 - 24 V DC input should be used on deck, bridge and in special power distribution zones (100-240 V +/-10%, 50/60 Hz input can be used in general power distribution zones) to meet the regulatory needs.

Specifications are subject to change without notice

Compliance to Australian regulations and standards

Product marking:	
Safety:	IEC 62368
EMC:	EN 55032 and EN 55024

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