

## 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.
- Can be mounted side-by-side and back-to-front in a 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
Colour:	Grey/white

#### Functional

Supply voltage:	100 - 240 V AC ±20% 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 AC) Max. 1A at DC input (12V)

#### 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: <sup>1</sup> 1 × slot for an SD card (Secure Digital non-volatile memory)

Variants

FE3-AAAAAA	Elise3 Lite, EU/EFTA
FE3-AAAAAB	Elise3 Lite, UK, NA, AU/NZ
FE3-AAABAA	Elise3 Standard, EU/EFTA
FE3-AAABAB	Elise3 Standard, UK, NA, AU/NZ
FE3-AAACAA	Elise3 NSS/LON*, EU/EFTA
FE3-AAADAA	Elise3 ISC/LON*, EU/EFTA

\* Elise3 Standard with LON piggyback

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 <sup>1</sup> Industrial grade, 1 GB


1. NOTE: Support of SD card is product dependent

I/O (Input/Output)	Elise3 Lite	Elise3 Standard	Elise3 LON
Serial ports:			
2 × RS232 (D-sub-9 male connectors), used for external interfaces ESPA, Ascocom 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


Specifications are subject to change without notice.

#### Compliance to European regulations and standards

EU directives: 2004/108/EC (EMC)  
2006/95/EC (LVD)  
2011/65/EU (RoHS)

Product marking:   
EMC: EN 55022:2007 (Class B)  
EN 55024:2003  
EN 60945:2002 <sup>1</sup>  
EN 50121-3-2:2006  
EN 60533:1999 <sup>2</sup>  
EN 60601-1-2:2004  
Safety: EN60950-1:2006

#### Compliance to US and Canadian regulations and standards

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

#### Compliance to Australian regulations and standards

Product marking:   
Safety: IEC 60950-1  
EMC: EN 55022 and EN 55024

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.

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