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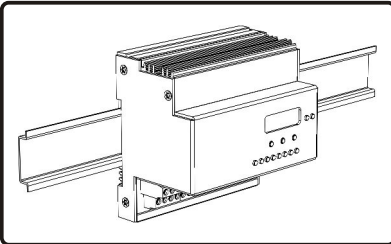
- Network Processor Unit
- 300mm Data-Bus Link Cable
- User Manual CD-ROM

# INSTALLATION GUIDE:

## Network Processor Unit DIN-NPU-00-01

The Network Processor Unit is a control hub for the operation of multiple eDIN modules. It is an advanced network gateway that allows an eDIN system to be controlled and configured remotely through a web browser.

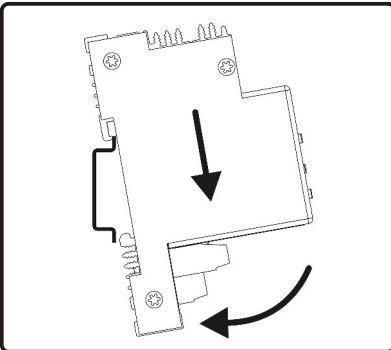
### SPECIFICATION & MOUNTING



Modules must be installed within a suitable surface mount enclosure with integral DIN rail. Installation must be carried out by a qualified electrician in accordance with National Wiring Regulations and other applicable regulations. Compliance to EC EMC and Low Voltage Directives may be invalidated if not used or installed according to the published specification.

eDIN modules are designed to attach to a standard 35mm wide DIN rail (EN 50022, BS 5584). To install, simply hook the module from the top, push down and click into place (see diagram).

All eDIN modules must be earthed. Modules contain no user serviceable parts and should not be opened.



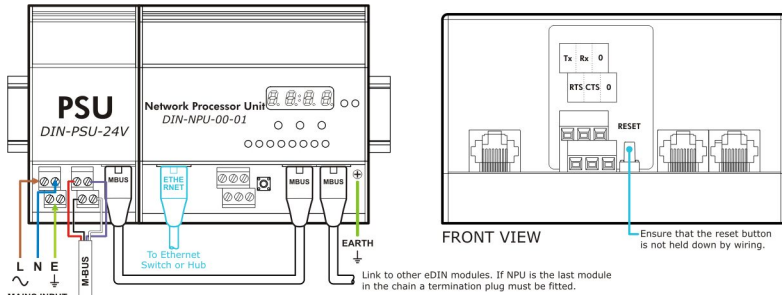
- Module Size:** 6M, L 106mm x W 100mm x H 64mm
- Power Input:** 24V DC, 250 mA max. from data bus
- Max. Wire Size:** 1.5mm<sup>2</sup>
- Control Input:** Mode M-BUS
- M-BUS Connection:** 2 x RJ-45 (in and out)
- Network Connection:** Ethernet - 100 Base-T, RJ-45
- ta Max:** 40°C
- tc Max:** 60°C
- Standards:** (CE EMC & LVD) EN55015, EN61547, EN6100-3-2, EN61000-3-3 & EN60669-2-1



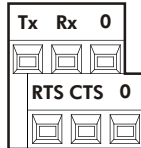
# WIRING

## IMPORTANT:

- Mains input to power supply must be protected by a suitably rated MCB.
- Correctly certified cables must be used for all mains and extra low voltage MBUS connections in accordance with National Wiring Regulations and other applicable regulations.



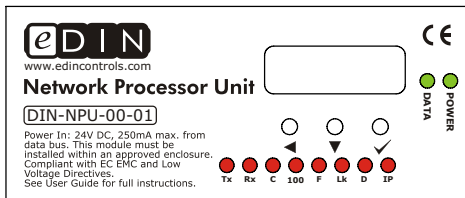
## RS232 Port Connection Details



- Tx** *Transmit*  
Data out of the NPU
- Rx** *Receive*  
Data into the NPU
- RTS** *Ready to Send*  
Handshaking output from the NPU
- CTS** *Clear to Send*  
Handshaking output from the NPU
- 0** *0v / GND Connection*

The **Tx** connection of the NPU should be wired to the **Rx** connection of the device you want to control. Likewise the **Rx** connection of the NPU should be wired to the **Tx** connection of a device which you want to use to send commands to the NPU.

# TOP PANEL LED FUNCTIONS



## POWER

24v Power from MBUS

## DATA

MBUS message received or transmitted

LED	Communication Port	Meaning
Tx	RS232	Data is being transmitted from the NPU
Rx	RS232	Data is being received by the NPU
C	Ethernet	Collision - If this LED flashes continually then check your network cables and connectors.
100	Ethernet	Unit is operating in 100Mbps mode when illuminated. Unit is operating on 10Mbps mode when not illuminated.
F	Ethernet	Full duplex mode. This LED would normally be on.
Lk	Ethernet	Link - LED flashes whilst a link is being established. Illuminated continually when the physical Ethernet connection is working, flashing off when data is passed.
D	Ethernet	The NPU is configured to use a DHCP server, and is not a fixed IP address.
IP	Ethernet	The NPU has an IP address

# ONBOARD MENU STRUCTURE

Screen on front of module



Whilst not in a menu option, the display scrolls showing the address, date & time.



Setup

Set the Address, Ethernet settings, Clock and RS232 settings.

See Next Page



Diagnostics

Check Debug Level, RS232, MBUS and Firmware Version

See Below



Lock

LOCK the modules control panel



Restore

RESTORE all settings to factory default

# ONBOARD MENU - DIAGNOSTICS



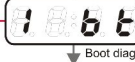
Diagnostics



Debug Level through RS232 port



No diagnostic messages



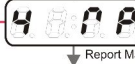
Boot diagnostic messages



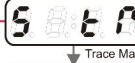
Error Messages Only



Warning Messages Only



Report Main Operations



Trace Main Operations



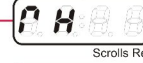
Print Everything



RS-232



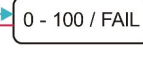
Scrolls Transmitted Test Message



Scrolls Received Test Message



MBUS



Scrolls Firmware Version

# ONBOARD MENU - SETUP

