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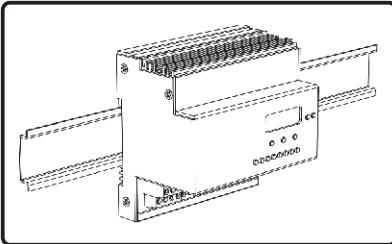
- Network Processor Unit
- 300mm Data-Bus Link Cable
- User Manual CD-ROM

INSTALLATION GUIDE:

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

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.

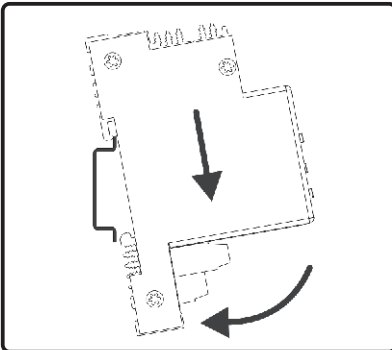
SPECIFICATION & MOUNTING



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.



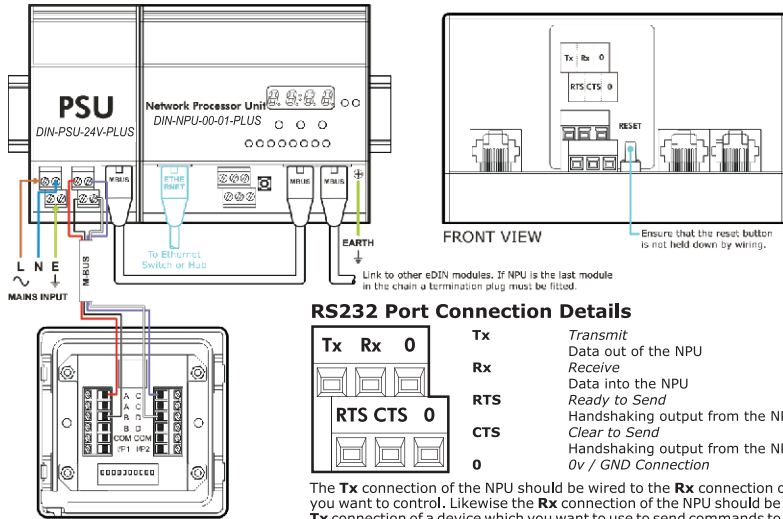
- Module Size:** 6M, L 106mm x W 100mm x H 64mm
- Power Input:** 24V DC, 250 mA max. from data bus
- Max. Wire Size:** 1.5mm²
- Control Input:** Mode M-BUS
- M-BUS Connection:** 2 x RJ-45 (in and out)
- Network Connection:** Ethernet - 100 Base-T, RJ-45
- ta Max:** 40°C
- tc Max:** 60°C
- Standards:** (CE EMC & LVD) EN55015, EN61547, EN6100-3-2, EN61000-3-3 & EN60669-2-1



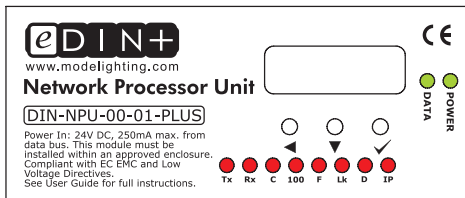
WIRING

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.



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

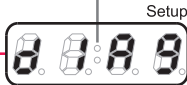


Whilst not in a menu option, the display scrolls showing the address, date & time.



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

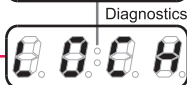
See Next Page



Setup

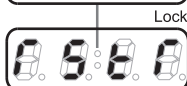
Check Debug Level, RS232, MBUS and Firmware Version

See Below



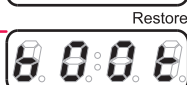
Diagnostics

LOCK the modules control panel



Lock

RESTORE all settings to factory default



Restore

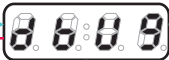
To reboot NPU

Reboot

ONBOARD MENU - DIAGNOSTICS

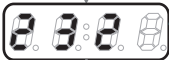


Diagnostics



Debug Level

Set diagnostic message level 0-6



RS-232



Scrolls Transmitted Test Message



No debug message



MBUS

0 - 100 / FAIL



Scrolls Firmware Version

Average CPU Loading



CPU Use

Number of IP connection in use



TEP or IP Use

Number of HTTP connections available

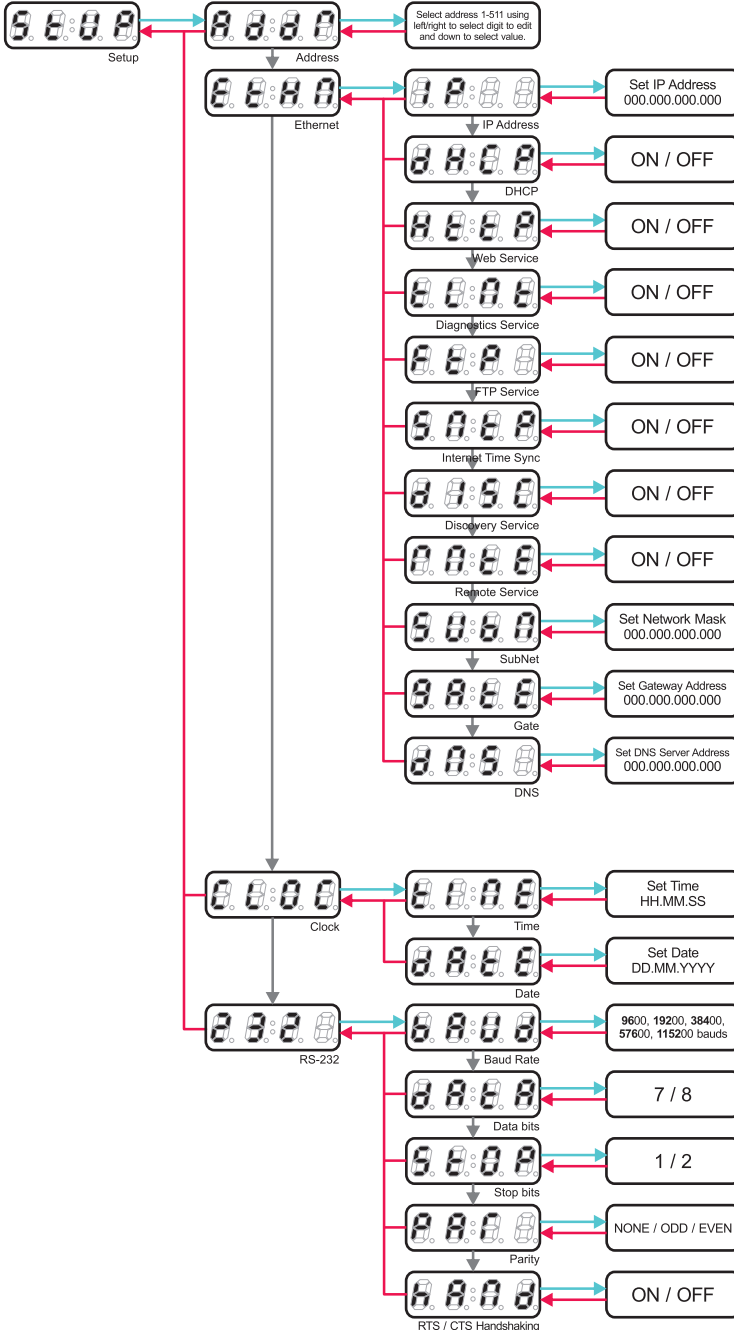


HTTP Use

Is NPU Master

Master Mode

ONBOARD MENU - SETUP



WARNING Turning Web Services off makes the web pages inaccessible.