



NB1600

Wireless Router for DIN-Rail

Applications

The NB1600 is the preferred DIN-rail communication module for:

- Condition monitoring
- Remote management
- Telemetry
- CCTV
- Digital signage
- Vending

Key Features

The key features of the NB1600 are:

- DIN rail form factor
- Flexible hardware configurations
- 3G+ and 2 ethernet ports
- Digital I/O
- Redundant power supply
- High temperature range

NetBox Software

- Connection supervision
- Automatic connection recovery
- Fallback management
- Flexible firewall
- Port forwarding
- IPsec, OpenVPN server and client
- Fail-safe OTA software update

NB1600 - The DIN-Rail Router

The NB1600 NetBox Wireless Router brings mobile communication to the DIN rail.

The NB1600 NetBox Wireless Router is the preferred communication module for remote management, telemetry, condition monitoring and CCTV.

Cellular Communication

For mobile internet access a 2G/3G+ modem is embedded. All services from GPRS to HSPA are supported; the best available service is automatically selected.

Digital I/O

The NB1600 has two isolated binary inputs and two relay outputs.

RS232

The NB1600 comes with a 3-wire RS232.

Redundant Power Supply

For best reliability the NB1600 offers redundant DC power supply.

USB

The NB1600 has a USB host service interface.

VPN

The NetBox Software supports major VPN technologies such as IPsec and OpenVPN. Both, server and client mode is possible.

NetBox Software

Further NetBox services include DHCP server, DNS proxy server, DDNS agent, SNMP agent, telnet server, SSH server, web server, e-mail client and SMS client.

The device is administrated via web browser or command line. Self-provisioning for new software or new configuration is possible. The device can be configured via the http service interface or remote shell.

Features	
Mobile interface	Multimode HSDPA, HSUPA, UMTS, EDGE, GPRS and GSM Global connectivity with 3G (850/900/1900/2100 MHz) and quad-band 2G (850/900/1800/1900 MHz) Transparent hand-over between 2G and 3G networks Data rates: max. 7.2 Mbps downlink / 5.76 Mbps uplink, Power Class 3 (+24 dBm) Antenna connector: SMA female
Digital I/O	2 digital inputs, maximum input voltage 40 VDC, minimum voltage for level 1 (set): 7.2 VDC, maximum voltage for level 0 (not set): 5.6 VDC. Note: a negative input voltage is not recognized. 2 digital outputs, limiting continuous current: 1 A, maximum switching voltage 60 VDC, 42 VAC (Vrms), maximum switching capacity: 60 W
Ethernet	2 Ethernet ports, 10/100 Mbps, Auto MDX, routed Connector type: RJ45
Serial interface	Protocol: 3-wire RS232 Connector type: terminal block
Service interface	USB Host interface, providing support for memory devices Connector type: USB type A
Power	Redundant power supply inputs Input voltage: 12V DC to 48V DC (-15% / +20%) Max. power consumption: 5W Connector type: terminal block
Environment	Base model: -40 °C to +80 °C, models containing UMTS module: -20 °C to +65 °C IP30
Dimensions, weight	124.2mm x 45mm x 98.9mm, ca. 450g
MTBF	60'000h
Safety standards	EN60950-1:2006
EMC standards	EN301489-1 V1.7.1, EN301489-7 V1.3.1 (Emission) EN61000-6-2:2005, EN50121-3-2:2006 and EN50121-4:2006 (Immunity)
Type approval	CE according to R&TTE
Order numbers	
NB1600-420-0	UMTS/HSPA router Other variants and customer specific configurations possible - please contact us.

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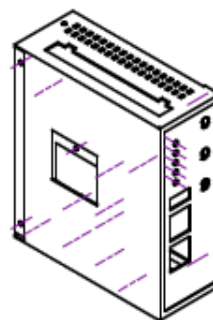
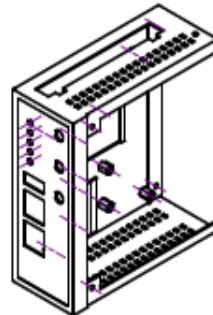
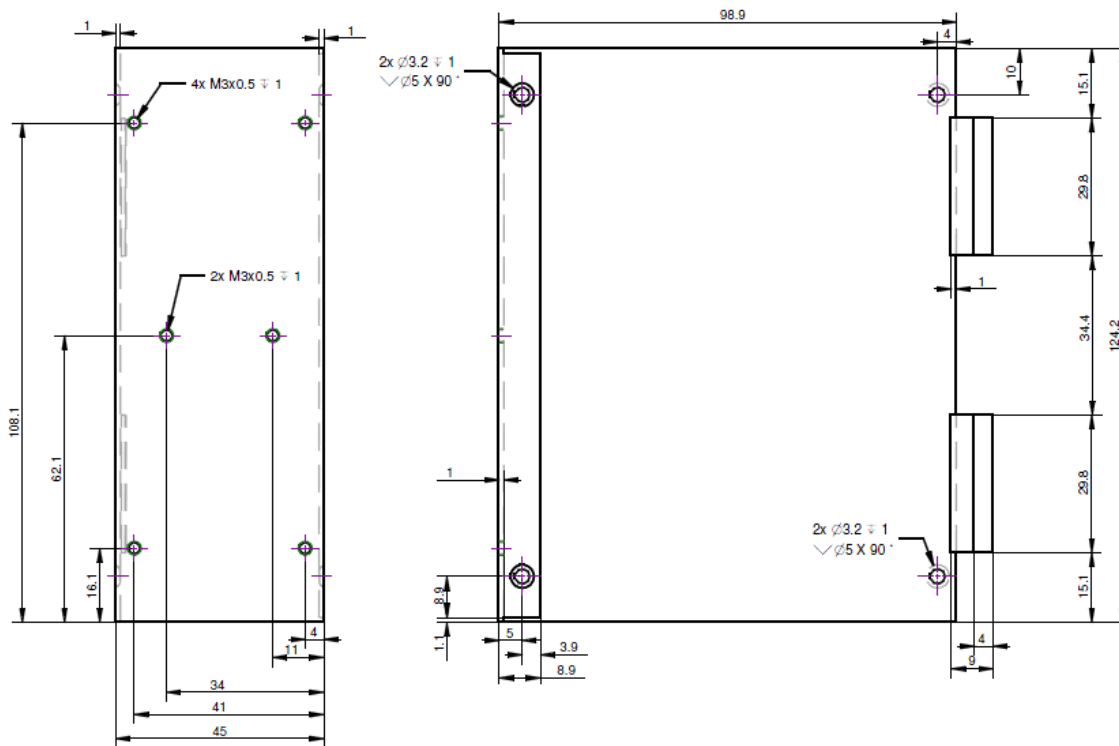
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