



NB2500

NetBox Wireless Router

Typical Applications

NB2500 is the preferred communication module for:

- Buses, Trams, Trains, Boats
- Special-purpose vehicles
- Land line backup or replacement

Key Features

The key features of NB2500 are:

- UMTS / HSPA or GRPS / EDGE
- WLAN 802.11 a/b/g
- 4 port Ethernet switch
- Dual SIM
- Extended temperature range
- EN50155

NB2500 NetBox Wireless Router

The NB2500 NetBox Wireless Router securely and wirelessly connects two networks/sites (e.g. a local network in a vehicle with the company Intranet) via wireless networks and the Internet.

The NB2500 is an UMTS/WLAN router and enables fast and secure data transmission between two sites. UMTS based services such as High Speed Packet Access (HSPA) are supported as well as Wi-Fi 802.11 a/b/g. For the establishment of Virtual Private Networks (VPN) support for major technologies (IPsec, OpenVPN, PPTP) is provided. For simple applications the use of Dynamic DNS or fixed IP addressing can replace the need of a VPN.

Multiple devices can directly be attached to the NB2500 thanks to the integrated 4 port Ethernet switch. The router is qualified to operate within a temperature range of minus 20 to 70 degrees Celsius. The dual SIM feature guarantees best availability of network connections.

NetBox Software is based on well proven components including an Embedded Linux operating system and standard communication protocols. Typical applications are the wireless integration of Points of Sale, ATMs, Digital Signage, building technology or land line backup/replacement.

NetBox Software

Mobile Connection	SIM and PIN administration, network selection (automatic or manual) Mobile connection establishment (dial on demand, permanent) and monitoring Fallback to backup profile
Routing and Firewall	Static Routing, Network Address Port Translation (NAPT) Stateful Packet Inspection, Packet Filter
Virtual Private Networking	OpenVPN, IPsec, PPTP, Dial-in Port-based VLAN
Services	DHCP server, DNS proxy server, DNS update agent Telnet server, SSH server, Web server COM server, Modbus gateway E-mail client, SMS client
System Administration	Web Management, Command Line Interface, file configuration, advanced troubleshooting, eased software update

NB2500 Hardware	
Mobile Interface (Option)	Multimode HSDPA, HSUPA, UMTS, EDGE, GPRS and GSM Global connectivity with triple-band 3G and quad-band 2G Transparent hand-over between UMTS and GSM networks Data rates: max. 7.2 Mbps downlink / 2 Mbps uplink Antenna Connector: SMA female
Wi-Fi Interface (Option)	Protocols: Wi-Fi 802.11 a/b/g Encryption: Wi-Fi Protected Access (WPA and WPA2) Wired Equivalent Privacy (WEP) Antenna Connector: SMA female
Ethernet Switch	4 Port Ethernet Switch 10/100BaseTX
GPS (Option)	Integrated GPS receiver with NMEA 0183 data stream
Serial Interface	Protocols: 1 x RS232 DCE interface or half-duplex RS485 Connector: RJ45
Power Supply	Input voltage: 9V DC to 32V DC Max. power consumption: 5W
Environmental Conditions	Temperature range: -20 °C to +70 °C Humidity: 0 to 95% (non condensing) Altitude: up to 4000m Mains Voltage Ripple: less than ±10% of the nominal voltage Overvoltage Category: II Pollution Degree: 2
Dimensions / Weight	165mm x 39mm x 104mm, ca. 560g
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)
Shock and Vibration	IEC 60068-2-6:1982, IEC 60068-2-27:1987 MIL STD 810F, Meth. 514.5, Fig. 514.5 C-1
Type Approval	CE, R&TTE (see EC Declaration of Conformity)
Railway Norm (Options)	EN50155 Conformity, M12 connectors

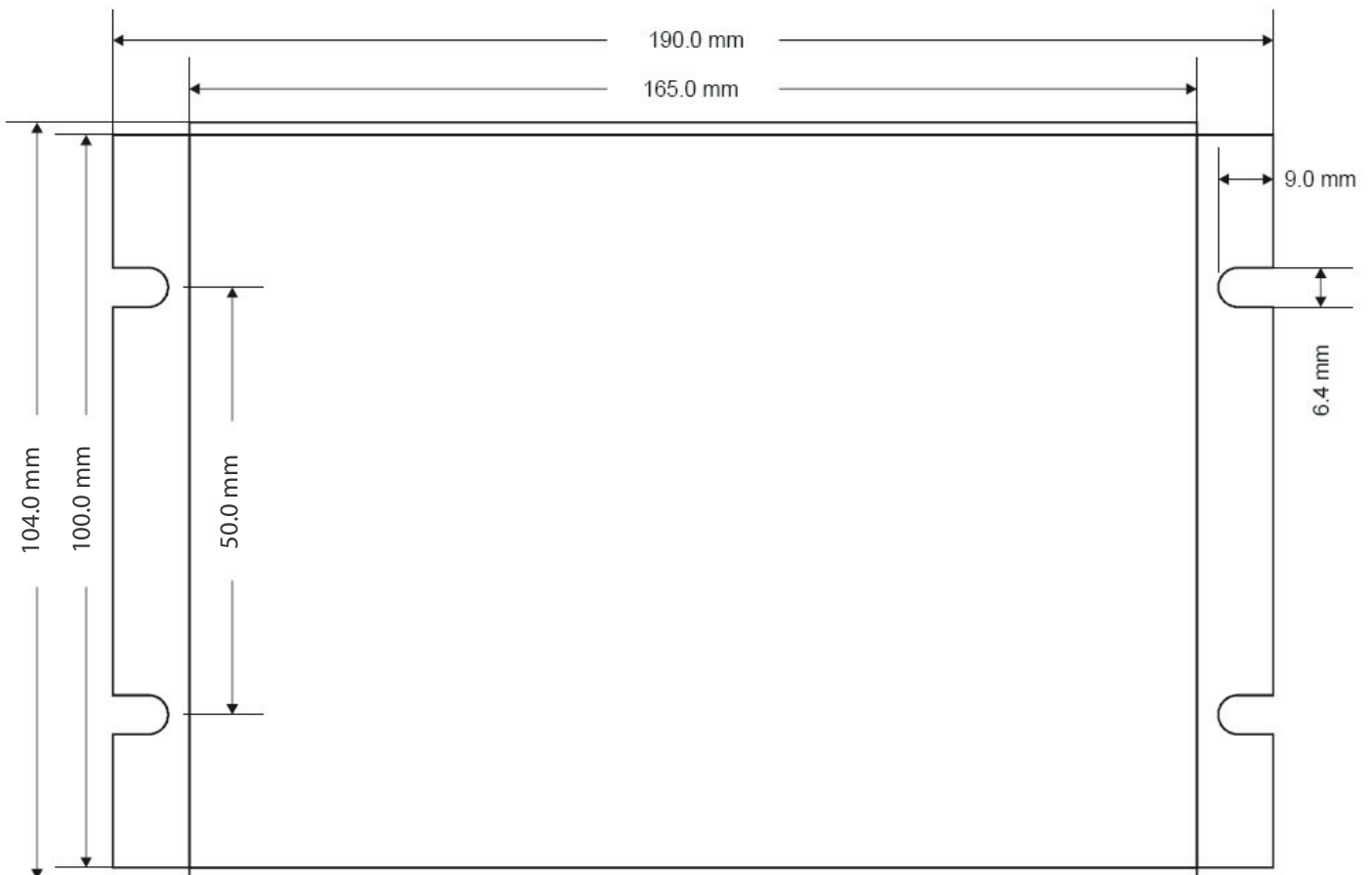
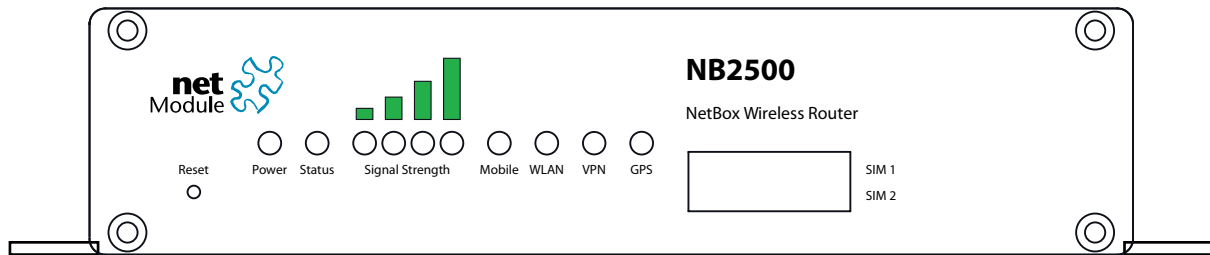
Ordering Information

Order Number	Description
NB2500 - 310-0	What is known as NB2240. EDGE router without GPS
NB2500 - 310-1	What is known as NB2241. EDGE router with GPS
NB2500 - 320-0	What is known as NB2340. UMTS router without GPS
NB2500 - 320-1	What is known as NB2341. UMTS router with GPS
NB2500 - 324-1	What is known as NB2541. UMTS router with WLAN, GPS
NB2500 - 304-0	WLAN router
NB2500 - 300-0	4 Port Switch

For railway compliant models please contact us.

Mechanical Dimensions

Height: 40mm



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