



# NB2600

## Industrial UMTS/WLAN Router with Digital I/O

### Applications

The NB2600 is the preferred communication module for:

- Condition monitoring
- Remote management
- Machine control
- Data acquisition
- Ticket machines, vending
- Mobile applications

### Key Features

The key features of the NB2600 are:

- 2G/3G+, WLAN, GPS communication in one device
- 2 digital inputs/outputs
- Always on - 24/7 operation
- NetBox Software

### NetBox Software

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

## NB2600 - The UMTS/WLAN Router

**The NB2500 NetBox Wireless Router reliably connects networks and sites via mobile, WLAN or wired connection. Modern VPN technology enables fully transparent communication for all kind of applications.**

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 machine monitoring, remote control or land line backup/replacement.

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 remotely by customer programs via a powerful application interface. The SMS remote control capability allows remote management by mobile phones. Configurable notifications by SMS or e-mails keeps the operator informed about the current status.

Simple control applications are possible by using the digital I/O ports. The input ports may for example monitor door contacts to detect intrusions and the output ports may reset another remote device.

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

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

Multiple devices can directly be attached to the NB2500 thanks to the integrated 4 port Ethernet switch. Port based VPN assignment allows the separation of networks and guarantees minimal and secure separation of independent applications. One Ethernet port can be configured as an additional WAN interface.

The WLAN interface can also be used as an additional WAN link or it can be operated as an access point to provide Internet access to other WLAN clients.

The dual SIM feature guarantees best availability of network connections as well it allows minimizing communication costs near country borders by selecting the local provider. Predefined network selection and roaming suppression is supported.

The router is qualified to operate within a temperature range of minus 20 to 70 degrees Celsius. Due its special vibration and shock hardening the device is an ideal solution for applications in harsh environments.

Features	
<b>Mobile interface (option)</b>	Multimode HSDPA, HSUPA, UMTS, EDGE, GPRS and GSM Global connectivity with 3G (900/2100) and quad-band 2G (850/900/1800/1900 MHz) Transparent hand-over between 2G and 3G networks Data rates: max. 7.2 Mbps downlink / 2 Mbps uplink, Power Class 3 (+24 dBm) Antenna connector: SMA female
<b>WLAN interface (option)</b>	Protocols: Wi-Fi 802.11 a/b/g Client, Wi-Fi 802.11 b/g Access Point for up to 8 clients Encryption: Wi-Fi Protected Access (WPA and WPA2), Wired Equivalent Privacy (WEP) Antenna connector: SMA female
<b>Ethernet switch</b>	4 port Ethernet switch, 10/100 Mbps, auto MDX Connector type: RJ45
<b>GPS receiver (option)</b>	GPS receiver with NMEA 0183 data stream supporting active and passive antennas Antenna connector: SMA female
<b>Service interface</b>	USB Device interface, Protocol: RNDIS providing virtual Ethernet link , Connector type: USB B
<b>Serial interface</b>	Protocol: 1 x RS232 DCE interface Connector type: RJ45
<b>Digital I/O</b>	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
<b>Power</b>	Input voltage: 12V DC to 24V DC (+/- 20%) Max. power consumption: 6W, no batteries included
<b>Environment</b>	Base model: -40 °C to +80 °C, models containing UMTS or WLAN modules: -25 °C to +70 °C IP40 with SIM cover mounted
<b>Dimensions, weight</b>	165mm x 85mm x 100mm, ca. 600g
<b>MTBF</b>	60'000h
<b>Safety standards</b>	EN60950-1:2006
<b>EMC standards</b>	EN301489-1 V1.7.1, EN301489-7 V1.3.1 (Emission)
<b>Type approvals</b>	CE according to R&TTE
<b>Order number</b>	NB2600 - 300-0 4 Port switch, firewall, Lan-Lan-Router, OpenVPN server NB2600 - 304-0 WLAN router NB2600 - 320-0 UMTS/HSPA router NB2600 - 320-1 UMTS/HSPA router with GPS NB2600 - 324-1 UMTS/HSPA, WLAN router with GPS

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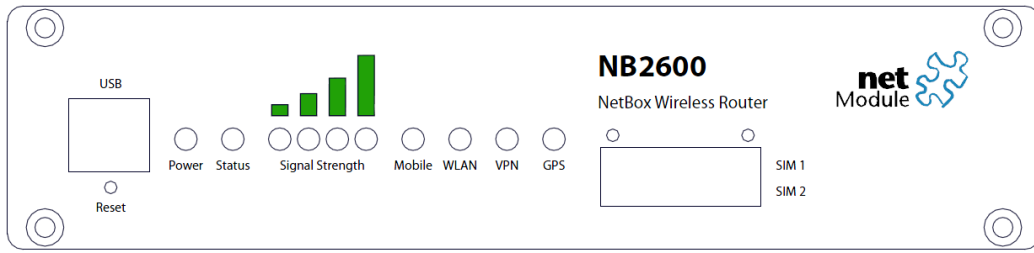
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Drawings



Heigh: 40mm



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