NB1600 LTE Router Mobile Router (LTE, UMTS, GSM)





The NB1600 mobile router brings mobile broadband to the DIN rail or any other place where a fixed Internet connection is unavailable, unsuitable and too expensive.In addition all NB1600 core functions are available: digital I/O, USB and serial gateway, SDK, VPNs and many more.

The NetModule NB1600 is a powerful and programmable industrial mobile broadband router for remote management, telemetry, condition monitoring, CCTV, ATMs, vending machines and other M2M applications.

For mobile internet access a GSM/UMTS or a GSM/UMTS/LTE modem is embedded. The best available service is selected automatically.

As a special highlight NB1600 offers two Ethernet ports that are highly configurable. Used as LAN ports they form a two port switch or have separated, routed IP networks. Configured as WAN port, an external modem or land line can be attached in order to add redundancy.

The RS-232 serial interface can act as serial device server or system console. Legacy equipment that does not have any Ethernet or USB port can be hooked up this way. Furthermore, the serial line can be assigned to the SDK and be controlled from there.

The NB1600 has two isolated binary inputs and two relay outputs for direct connection of sensors and actuators. The logic for the inputs/outputs is implemented by the user in the SDK environment on the router.

The USB port enables configuration and firmware update from memory stick. You may also configure it as a device server. Please ask for support of your special USB device.

The router firmware supports common VPN technologies such as IPsec and OpenVPN. Both, server and client mode is possible. Simple handling of a Public key infrastructure makes is easy to connect two NB1600 trough a VPN tunnel.

Further 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 an easy to use web GUI or the command line interface. Over the air software update is both easy and fail-safe.

Status: End-of-Life

- Last Time Buy: 01.09.19
- Last Time Shipment: 01.03.20

Applications

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

Key Features

- Mobile GSM/UMTS/LTE
- 2 Ethernet ports
- 2 digital inputs & outputs
- *USB & RS-232
- Redundant power supply
- DIN rail mounting
- Programmability

Specifications

Mobile / Cellular	Multimode LTE, UMTS and GSM module LTE/4G FDD Bands: B1(2100), B3(1800), B5(850), B7(2600), B8(900), B20(800) DC-HSPA+/UMTS/3G: B5(850), B8(900), B2(1900), B1(2100) GSM/2G: B5(850), B8(900), B3(1800), B2(1900) Data rates: LTE max. 150 Mbps downlink / 50 Mbps uplink (DC-HSPA+ 42/5.76) Antenna connector: 1-2 SMA female
Digital I/O	2 digital inputs, level 0 (not set): 0-4.0 VDC level 1 (set): 7.2-40 VDC 2 digital outputs, 0-60 VDC/1A, maximum switching capacity: 60 W Connector: 8 pins of 15-pin terminal block, 5 mm pitch
Ethernet	2 Ethernet ports, 10/100 Mbps, Auto MDX, bridged or routed, RJ45
USB	USB Host interface, type A
Serial	Protocol: 3-wire RS232; Connector type: 3 pins of 15-pin terminal block, 5 mm pitch
Power	Redundant power supply inputs Input voltage: 12V DC to 48V DC (-15% / +20%) Max. power consumption: 5W Connector type: 2+2 pins of 15-pin terminal block, 5 mm pitch
Dimensions, weight	Width 45mm x height 124.2mm x depth 110mm, ca. 600g
Environment	Temperature range: -25 °C to +70 °C; Storage temperature: -40 °C to +85 °C Ingress Protection Rating: IP40; MTBF: 226'000h
Compliance	CE according to 2014/53/EU (RED), 2011/65/EU (RoHS), 2012/19/EU (WEEE), 1907/2006/EC (REACH) FCC according to 47 CFR, Part 15B
Standards	EN 300 328, EN 300 440-2, EN 301 489-1, EN 301 489-7, EN 301 489-17, EN 301 489-24, EN 301 511, EN 301 893, EN 55024, EN 55032, EN 61000-6-2, EN 60950-1, EN 62311
Order numbers: NB1600-L	(contact sales for more models, options or project specific adaptations) LTE Router
End-of-Life	Last Time Buy: 01.09.19 Last Time Shipment: 01.03.20 End of support and repair: 01.03.22