



NB1310 NetBox Wireless Router

Typical Applications

NB1310 is the preferred communication module for M2M applications such as:

- Digital Signage
- Cameras
- Measurement devices

Highlights

The key features of NB1310 are:

- UMTS / HSPA or GPRS / EDGE
- 1 Ethernet port
- Reliable NetBox Software with connection monitoring
- Optional WLAN Access Point
- Optional GPS receiver

NB1310

The NB1310 NetBox Mini router reliably connects single hosts such as screens or cameras or even whole networks to the Internet via GSM or 3G.

The NB1310 is a small and inexpensive UMTS router providing the reliability known by other NetBox models. GSM and UMTS based services such as High Speed Packet Access (HSPA) are supported. For the establishment of Virtual Private Networks (VPN) NB1310 provides IPsec and OpenVPN. For simple applications the use of Dynamic DNS or fixed IP addressing can replace the need of a VPN.

NetBox Software is based on well proven components including an Embedded Linux operating system and standard communication protocols. Typical applications are Digital Signage, video and measurement applications.

NB1310 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) SPI, Packet Filter, Access Control List
Virtual Private Networking	OpenVPN, IPsec, PPTP, Dial-in
Services	DHCP server, DNS proxy server, DNS update agent Telnet server, SSH server, Web server E-mail client, SMS client
System Administration	Web Management, Command Line Interface, File configuration, Advanced troubleshooting, Eased software update

NB1310 Hardware	
Mobile Interface	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 (Optional)	Protocols: Wi-Fi 802.11 b/g Encryption: Wi-Fi Protected Access (WPA and WPA2) Wired Equivalent Privacy (WEP) Antenna Connector: SMA female
Ethernet	1 Ethernet 10/100 Base-T with Auto MDX
Power Supply	Input voltage: 9V DC to 21V DC Power over Ethernet (PoE): as alternative supply Max. power consumption: 3W
Environmental Conditions	Temperature range: 0 °C to +55 °C Humidity: 5 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	100mm x 85mm x 36mm, ca. 280g
Safety Standards	EN60950-1:2006
Type Approval	CE, R&TTE (see EC Declaration of Conformity)
Options	
GPS	Integrated GPS receiver with NMEA 0183 data stream
WLAN	Integrated WLAN Access Point
Accessories	
Antennas	Various antennas available suitable for your application, for more information see http://www.netmodule.com/en/products/nb/accessories.aspx or contact us.
PSU	Power Supply Unit