



NB2240 NetBox Wireless Router

Typical Applications

NB2240 is the preferred communication module for M2M applications such as:

- Points of Sale, ATMs
- Security and Surveillance
- Remote Management
- Land line backup or replacement

Hardware Highlights

The unique hardware features of NB2240 are:

- Quad-Band GSM
- Class 12 EDGE / GPRS
- 4 port Ethernet switch
- Dual SIM
- Extended temperature range
- Extended input voltage range

NB2240 NetBox Wireless Router

The NB2240 NetBox Wireless Router securely and wirelessly connects two private networks/sites (e.g. Remote LAN and company Intranet) via public GSM networks and the Internet. The benefits of such a Virtual Private Networks (VPN) are flexibility, security, cost-effectiveness and convenience.

The NB2240 is an EDGE router and enables fast and secure data transmission between two sites. For the establishment of Virtual Private Networks (VPN) two different technologies are supported: IPsec and OpenVPN. 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 NB2240 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, building technology or land line backup/replacement.

NetBox Software

Mobile Connection

SIM and PIN handling
 Mobile connection establishment (dial on demand, permanent)
 Mobile connection monitoring
 Fallback to backup profile or SIM
 Automatic or manual network selection

Networking / VPN / Security

Static Routing
 OpenVPN, IPsec, PPTP
 Network Address Port Translation (NAPT)
 Stateful Firewall, Access Control Lists

Services

DHCP server, DNS proxy server, DNS update agent
 Telnet server, SSH server, Web server
 COM server
 E-mail, SMS, Event management
 Remote Access Server

System Administration

Web Management, Command Line Interface, File configuration,
 Advanced troubleshooting, Easy software update

NetBox Hardware	
GSM Interface	Quad-Band GSM (850 / 900 / 1800 / 1900) Mobile station class B Data transfer via Enhanced Data Rates for GSM Evolution (EDGE): Multi Slot Class (MS-C) 12, Modulation Coding Schemes (MCS) 1-9, Maximum data rate at MCS 9: 236kbps upload and download (4 time slots), max. 5 time slots in total. Data transfer via General Packet Radio Service (GPRS): Multi Slot Class 12, Coding Schemes (CS) 1-4 Maximum data rate at CS 4: 84kbps upload and download (4 time slots), max. 5 time slots in total. Data transfer via Circuit Switched Data (CSD): Up to 14.4 kbit/s, Protocol V.110
Ethernet Switch	4 Port Ethernet Switch 10/100BaseTX
Serielle Interface	1 x RS232 DCE Schnittstelle or half-duplex RS485
Antenna Interface	Impedance: 50 Ohm Plug: SMA female
Power Supply	Input voltage: 9V DC to 32V DC Max. power consumption: 5W
Environmental Conditions	For indoor use only 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
Type Approval	CE, R&TTE (see EC Declaration of Conformity)

Options	
GPS	NB2241: Integrated GPS receiver with NMEA 0183 formatted output via UDP
Antenna	Various antennas available suitable for your application
M2M Service Packages	OpenVPN Hosting (VPNConnect), see product info "M2M Service Packages"

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