



# NB2340 NetBox Wireless Router

## Typical Applications

NB2340 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 NB2340 are:

- HSPA / UMTS / EDGE / GRPS
- 4 port Ethernet switch
- Dual SIM
- Extended temperature range
- Extended input voltage range

## NB2340 NetBox Wireless Router

The NB2340 NetBox Wireless Router securely and wirelessly connects two private networks/sites (e.g. Remote LAN and company Intranet) via public mobile networks and the Internet. The benefits of such a Virtual Private Networks (VPN) are flexibility, security, cost-effectiveness and convenience.

The NB2340 is an UMTS 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 NB2340 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, Modbus gateway  
 E-mail, SMS, Event management  
 Remote Access Server

### System Administration

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

NetBox Hardware	
<b>Mobile Interface</b>	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 im uplink
<b>Ethernet Switch</b>	4 Port Ethernet Switch 10/100BaseTX
<b>Serial Interface</b>	1 x RS232 DCE Schnittstelle or half-duplex RS485
<b>Antenna Interface</b>	Impedance: 50 Ohm Plug: SMA female
<b>Power Supply</b>	Input voltage: 9V DC to 32V DC Max. power consumption: 5W
<b>Environmental Conditions</b>	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
<b>Dimensions / Weight</b>	165mm x 39mm x 104mm, ca. 560g
<b>Type Approval</b>	CE, R&TTE (see EC Declaration of Conformity)
Options	
<b>GPS</b>	NB2341: Integrated GPS receiver with NMEA 0183 formatted output via UDP
<b>Antenna</b>	Various antennas available suitable for your application
<b>M2M Service Packages</b>	OpenVPN Hosting (VPNConnect), see product info "M2M Service Packages"

**NetModule AG**  
Meriedweg 11  
3172 Niederwangen

T +41 31 985 25 10 Switzerland  
F +41 31 985 25 11

**NetModule GmbH**  
Alte Landstrasse 21  
85521 Ottobrunn

T +49 89 189 46690 Germany  
F +49 89 189 46699

18/02/2008 | Product information NB2340