



NetBox Wireless Router – NB2210

Typical Applications

The NB2210 is a versitale wireless router for M2M applications such as:

- Remote Management
- Vending and Retail (Vending machines, POS, ATM)
- Telemetry and Monitoring
- Security & Surveillance

Hardware Features

The NB2210 hardware features are:

- GPRS / EDGE Class 12
- 1 Ethernet Port
- 1 COM Port
- 2 digital Inputs and 2 digital Outputs
- 1 SIM Socket
- Power Supply 9-28 VDC

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The NB2210 connects Ethernet-enabled equipment to the internet over mobile networks (GSM/GPRS/EDGE) and makes your devices and data accessible from wherever you want.

NB2210 provides all standard access router functionality to connect Ethernet enabled remote devices and with the Internet and corporate Intranets. The customer benefits from a transparent full-duplex IP connection. Since the NB2210 can replace several modems this solution is very economical. A unique feature are the 2 digital inputs and 2 digital outputs that let you manage any sensor or actuator, e.g. a door contact or an emergency stop. No additional signaling hardware is needed. With the integrated OpenVPN client build your Virtual Private Networks.

NB2210 is based on the newest Internet and mobile network standards thus keeping your M2M application open and scalable and protecting your investment. The following picture illustrates typical architecture of an M2M solution. Applications include remote management, telemetry, EPOS and surveillance.

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	

18/02/2008 | Product Information NB2210



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 I Up to 14.4 kbit/s, Protocol V.110	Data (CSD):	
Ethernet Interface	1 Ethernet 10/100BaseTX		
Serial Interface	1 x RS232 full-featured DCE interface or half-duplex RS485		
Digital I/O	2 digital inputs - Maximum input voltage		
	2 digital outputsLimiting continuous current:Maximum swichting voltageMaximum switching capacity:Insulation	1 A 60 VDC, 42 VAC (Vrms) 60 W 1500 Vrms	
Antenna Interface	Impedance: Plug:	50 Ohm SMA female	
Power Supply	Input voltage: Power consumption:	9V DC to 28V DC max. 5 W	
Environmental Conditions	For indoor use only Temperature range: 0 °C to +55 °C; (-20°C to +70°C storage) Humidity: 5 to 80% (non condensing) Altitude up to 4000m Mains Voltage Ripple less than $\pm 10\%$ of the nominal voltage Overvoltage Category: II Pollution Degree: 2		
Dimensions / Weight	154mm x 84mm x 38mm, Weight: 228g		
Type Approval	R&TTE, CE (see EC Declaration of Conformity)		
Options			

Options	
Mounting Adapter	DIN rail mounting adapter, wall mounting adapter
Antennas	Various antennas available, depending on application
M2M Service Packages	see product information "M2M Service Packages"

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