



maxx RT2100



### maxx RT2100 Industrial LAN/WAN router

“Always online” functionality for automatic connection and automatic reconnection in case of an error: The maxx RT2100 industrial router is a robust LAN/WAN router for Smart Industrial IoT solutions. It is designed for use with a cable-connected or DSL modem, and as a VPN client or server for industrial PCs and controllers in corporate networks.

## Features

- **LAN/WAN**  
Can be used with cable and DSL modem and also as a VPN client and server in corporate networks
- **VPN**  
OpenVPN and IPSec for secure data transmission and availability, OpenVPN client and server
- **High security**  
Closed system with integrated firewall, password and certificate protected access management
- **Always online**  
Automatic connection set-up, automatic reconnection in case of an error
- **Ethernet**  
Ethernet switch with five ports for easy local networking
- **RS232**  
Serial port for transmission of serial data via IP networks
- **I/O**  
Digital inputs for alarm messages via SMS and e-mail, and digital outputs for remote switching
- **LEDs**  
Detailed signalling of connection states directly at the router
- **Robust**  
Sturdy metal case and extended operating temperature range

## Technical data

General	Description	RT2200	RT2100
Router		LTE	LAN/WAN
<b>Power supply</b>			
Power supply	10 V ... 55 V DC	x	x
Maximum power consumption 1	6 Watts	x	
Maximum power consumption 2	4 Watts		x
<b>Ambient conditions</b>			
Storage temperature range	-40 to +85 °C	x	x
Operating temperature range	-25 to +70 °C	x	x
Relative humidity during storage	0 to 95 %, non condensing	x	x
Relative humidity during operation	0 to 95 %, non condensing	x	x
<b>Interfaces</b>			
5 x Ethernet	10/100 MBit/s LAN switch	x	
4 x Ethernet	10/100 MBit/s LAN switch		x
1 x Ethernet	10/100 MBit/s WAN		x
2 x Digital IN	0 – 30 V, switching threshold at ca. 5 V	x	x
2 x Digital OUT	Same as power supply, current limited, not permanently short-circuit proof	x	x
1 x USB	USB 2.0, USB stick for configuration	x	x
1 x RS232	V.28, RXD and TXD	x	x
1 x antenna main	SMA socket, impedance 50 Ω	x	
1 x antenna auxiliary	SMA socket, impedance 50 Ω	x	
2 x SIM	Mini-SIM, 1.8 V and 3.3 V	x	
1 x SIM chip	Optional	x	
1 x push button	Reset button (factory or web access reset)	x	x
<b>Signalling</b>			
LED status	2 x DIN, 1 x DOUT, POWER	x	x
LED mobile communication	2 x SIM, NET, LEVEL	x	
LED date connection	Packet data, VPN	x	x
LED Ethernet	5 x ACT, 5 x LINK	x	x
<b>Mechanics</b>			
Case type	Robust metal case	x	x
Dimensions (H x W x D)	119 x 42 x 105 mm	x	x
Weight	580 g	x	x
Assembly	DIN rail	x	x
IP rating	IP40	x	x

### Protocols

OpenVPN	Client, Bridge, Server	x	x
IPSec	Client, IKEv1, IKEv2	x	x
Supported protocols	TCP/IP, UDP/IP, FTP,HTTP, HTTPS	x	x
Auxiliary protocols	ARP, DHCP, PING (ICMP), SNMP V1 V2 V3, SMTP	x	x

### Security

VPN	OpenVPN, IPSec	x	x
VPN authentication	X.509 certificates , preshared key, CA username/password	x	x
Network blocking	IP and Port forwarding, outgoing netbios, DNS service, invalid packets, external ping, external NAT, external TCP-MMS clamping	x	x
Firewall	Statefull packet inspection, incoming and outgoing data traffic	x	x

### Configuration and updates

Configuration	Web browser, SSL, SMS, XML files, USB-Stick, OpenVPN	x	x
Updates	Web browser, SSL, OpenVPN	x	x

### Services

Web service	http and https, changeable port, firewall	x	x
SSH	Changeable port, firewall	x	x
SNMP	SNMP V1 V2 V3, firewall	x	x
COM server	Server RAW and client, RFC2217, firewall	x	x
Socket server	Controlled via XML	x	x

### Mobile communication

Supported bands	LTE FDD: B1/B3/B5/B7/B8/B20 WCDMA: B1/B5/B8 GSM: B3/B8	x	
Data rates	LTE FDD: Max 10 Mbps (DL)/Max 5 Mbps (UL) DC-HSPA+: Max 42 Mbps (DL)/Max 5.76 Mbps (UL) UMTS: Max 384 Kbps (DL)/Max 384 Kbps (UL) EDGE: Max 236.8 Kbps (DL)/Max 236.8 Kbps (UL) GPRS: Max 85.6 Kbps (DL)/Max 85.6 Kbps (UL)	x	
SIM1 and SIM2	Manual and automatic switching	x	

### Ordering information

maxx RT2100	Article number 210001		x
maxx RT2200	Article number 220001	x	

Subject to modification without notice; errors excepted.  
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