



maxx RT2200



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Industrial LTE 4G mobile
communication router

Outstanding connectivity, high security, good availability: The maxx RT2200 mobile communication router for reliable use in industrial environments is designed for wireless operation. It uses the high availability LTE mobile network, which offers good coverage even in remote areas, and is ideally suited for Industry 4.0 applications.

Features

- **LTE 4G**
Use of LTE networks for good network coverage and bandwidth
- **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 check for a stable online connection
- **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
- **2 x SIM**
Network provider redundancy when using SIM cards from two network providers
- **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
Power supply			
Power supply	10 V ... 55 V DC	x	x
Maximum power consumption 1	6 Watts	x	
Maximum power consumption 2	4 Watts		x
Ambient conditions			
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
Interfaces			
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
Signalling			
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
Mechanics			
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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