



Your benefits at a glance:

- High transmission rates up to 50 Mbps uplink and 150 Mbps downlink
- High security of data transmission by means of **IPsec** or **OpenVPN** tunnel and integrated **Firewall**
- Simple and identical configuration of Router Family via the integrated **Web Server** or **XML File**
- Compatible to global **Mobile Phone Standards**
- Sending and receiving IO Status, Email, SMS and Router Status using XML Files
- Alerts via SMS and Email
- Logbook for recording device-specific events
- Complete package including: Power Supply, Ethernet Cable, Antenna and DIN Rail Holder

Optional:

- RS232 or RS485 interfaces for transparent serial data transmission over TCP/IP

LTE/HSPA+/UMTS/EDGE/GPRS Router

Product	MC MRL / MC MRL-4
Article-No.	MC1213976 / MC1213976-4Port
General	
Typ	Mobile LTE/HSPA+/UMTS/EDGE/GPRS-Router
Dimensions (B x H x T) in mm	44 x 105 x 84 mm
Supply voltage MC MRL	8 V to 30 V DC
Supply voltage MC MRL-4	10 V to 55 V DC
Operation temperature	-25°C to +70°C
Storage temperature	-40°C to +85°C
Housing	Aluminium
Mounting	tabeltop / DIN rail
Mobile	
Data Transmission in the GSM network	LTE: FDD Band 1,2,3,4,5,7,8,20, all bands with diversity HSDPA/HSUPA/HSPA+: Band 1,2,5,8, all bands with diversity GSM/GPRS/EDGE: 850/900/1800/1900 MHz
Transmission rates LTE	up to 50 Mbps uplink and 150 Mbps downlink
Transmission rates DC-HSPA+	up to 5.76 Mbps uplink and 43.2 Mbps downlink
Transmission rates HSPA+	up to 5.76 Mbps uplink and 21.6 Mbps downlink
Transmission rates EDGE	up to 236.8 kbps uplink and 236.8kbps downlink
Transmission rates GPRS	up to 85.6 kbps uplink and 85.6 kbps downlink
Dual SIM	yes (1 x intern; 1 extern)
GSM Antenna connections	yes, SMA
GSM Antenna connections MIMO	yes, SMA
Router	
Protocols / Services	DHCP-Server, HTTP-Server, NAT, Firewall, SMS, OpenVPN, IPSec, DynDNS, NTP
VPN	Secure data encryption with IPsec and OpenVPN (incl. X.509 support)
Conections MC MRL	2 x Ethernet 10/100 MBit/s
Conections MC MRL-4	4 x Ethernet 10/100 MBit/s
Integrated Switch	yes
Interfaces	
USB	USB 2.0 Typ A
IO	1 x digital IN / 1 x digital OUT over plug-in screw-type terminal
RS232	On request, over RJ45 cable adapter (only with 2x Ethernet Ports)
RS485	On request, over RJ45 cable adapter (only with 2x Ethernet Ports)
Power 1	RJ12 (compatible with MCT accessoires) (only with 2x Ethernet Ports)
Power 2	plug-in screw-type terminal
Other properties	
Configurations	Configuration and firmware update via Webinterface, USB-Stick, Remote
Antenna connection	SMA
Delivery	
Power supply	yes, 12V 1,2A
DIN rail adapter	yes
Antenna	1 x Omni-directional GSM / UMTS / 3G / LTE antenna type MC0114531-A
Ethernet cable	yes, 1m