

MC-MR-LQ

LTE Cat.1 Router



4G LTE Cat.1 industrial router for remote maintenance and secure networks.

The routers are distinguished by their high quality and robustness at competitive prices for demanding professional users.

Hardware and software are designed and manufactured to German quality standards. They are supplied in a robust aluminium housing and function at a wide range of temperatures.

Key features & functionalities:

- Secure communication with OpenVPN and IPsec with integrated firewall.
- Simple configuration via the integrated Web Server or XML File
- 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.



4G LTE



LAN port



WAN port



Ethernet Switch
(only 4-Port)



USB 2.0



1in/1out



GPS/GNSS
(optional)



RS232
(optional)



RS485
(optional)

MC-MR-LQ

Technical Data

General	Description	MC-MR-LQ	MC-MR-LQ-4
Type	LTE Cat.1 Router	x	x
Dimensions (W x H x D)	44 x 105 x 84 mm	x	x
Weight	approx. 340 g	x	x
Supply voltage	8 to 30V DC	x	-
Supply voltage	10 to 55V DC	-	x
Operation temperature	-20°C to +70°C	x	x
Housing	Aluminium	x	x
Protection class	IP20	x	x
Mounting	tabletop / DIN rail	x	x
Module embedded	Quectel EC21-E	x	x
Mobile			
Supporting networks	LTE FDD: Bands: 1, 3, 5, 7, 8, 20	x	x
	WCDMA: Bands: 1, 5, 8	x	x
	GSM: Bands: 3, 8		
Transmission rates LTE	LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 8.96Mbps (DL)/Max 3.1Mbps (UL)	x	x
Transmission rates UMTS	DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL)	x	x
Transmission rates FSM	EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL) GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL)	x	x
Antenna connections	SMA (female)	2	2
Interfaces			
Power 1 (only 2-Port)	RJ12 (compatible with MCT accessoires)	x	-
Power 2	plug-in screw-type terminal	x	x
Ethernet	10/100 MBit/s	2	4
USB	2.0 Typ A	x	x
IO	1 x digital IN / 1 x digital OUT over plug-in screw-type terminal	x	x
RS232 / RS485	over RJ45 cable adapter	optional	-
GPS	GPS/GNSS (GLONASS/BeiDou/Galileo)	optional	optional
SIM	Mini-SIM (1x extern, 1x intern)	x	x
Services			
Protocols	DHCP-Server, HTTP-Server, NAT, Firewall, SMS, OpenVPN, IPsec, DynDNS, NTP	x	x
VPN	Secure data encryption with IPsec and OpenVPN (incl. X.509 support)	x	x
Configurations	Configuration and firmware update via Webinterface, USB Stick, Remote	x	x
Delivery includes			
Power Supply	12 V / 1,2 A	x	x
DIN mount	Clip-in for DIN Rail	x	x
Portable antenna	1x GSM/UMTS/LTE, SMA (male) (Part-No. 101292)	x	x
Ethernet cable	1 m	x	x
Printed documentation	Quick Guide	x	x
Variants			
MC-MR-LQ	4G Router 2-Port	162489	-
MC-MR-LQ	4G Router 4-Port	-	162490
MC-MR-LQ RS232	4G Router 2-Port with RS232	193441	-
MC-MR-LQ RS232/GPS	4G Router 2-Port with RS232 + GPS	162974	-
MC-MR-LQ RS485	4G Router 2-Port with RS485	162979	-
MC-MR-LQ GPS	4G Router 2-Port with GPS	163058	-
Accessories			
		Part-Number	
MiMo wall antenna	GSM/UMTS/LTE, 2 m RG174, 2x SMA (male)	101268	101268
Portable antenna	GSM/UMTS/LTE/WLAN, SMA (male)	101292	101292
GPS antenna	1575.42 MHz, 2 dBi, 3 m RG174 SMA (male), magnetic	101259	-

Mistakes and changes are reserved.