

# MC90 (RS-232)



The MC90 is an LTE Cat 4 cellular modem optimized for M2M and IoT applications.

It is backward compatible to EDGE and GSM/GPRS ensuring that it can even be connected in areas missing 4G or 3G.

AT commands can be used to send and receive SMS messages as well as data via FTP(S), HTTP(S) and MQTT directly.



LTE Cat 4



RS-232



USB 2.0



GNSS (optional)

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## Product and technical information

Product information		Art. -No.
Model designation	MC90 (RS-232)	193379
Type	LTE Cat 4 cellular modem	
Protection class	IP20	
Mounting	Tabletop / DIN rail (with optional mounting kit)	
Cellular module	Quectel EG25-G	
Physical characteristics and limitations		Description
Power supply	6 V to 30 V DC (min. 12 W output power)	
Dimensions (W x H x D)	74 x 33 x 65 mm	
Weight	~ 90 g (~ 3.17 oz)	
Operation temperature	-35°C to +75°C	
Housing material	ABS	
Mobile network features		
Supported networks	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8	
Transmission rates LTE-FDD	Up to 50 Mbps upload and 150 Mbps download	
Transmission rates LTE-TDD	Up to 30 Mbps upload and 130 Mbps download	
Transmission rates DC-HSDPA	Up to 42 Mbps download	
Transmission rates HSUPA	Up to 5.76 Mbps upload	
Transmission rates WCDMA	Up to 384 kbps upload and 384 kbps download	
Transmission rates EDGE	Up to 236.8 kbps upload and 296 kbps download	
Transmission rates GPRS	Up to 85.6 kbps upload and 107 kbps download	
Ports and interfaces		
DE-9 male	Connected to internal RS-232 module	
RJ12 (Power / Serial)	For power supply and connected to internal RS-232 module	
SMA female GSM	For GSM antenna	
SMA female GNSS (optional)	The GNSS SMA connector option must be ordered explicitly	
USB B	Only for data connection (not suitable for power supply)	
SIM card slot	Push-push mechanism	
Accessories		Art. -No.
Stub antenna	GSM/UMTS/LTE, 50 mm, SMA male	101188
Magnetic base antenna	GSM/UMTS/LTE, 2 dBi, 2.5 m RG174, SMA male	101057
GPS antenna	GPS/GLONASS magnetic, 3 m RG174, SMA male	101259
Power Supply	12 V DC with RJ12 plug	100910
Power adapter	RJ12, open end, approx. 1.5 m	160571
USB cable	A/B, 1 m	100897
USB cable	A/B, 1.8 m	100898
DE-9 cable	9 pin plug / 9 pin jack, 1.5 m	100891
Mounting Kit	for DIN rail	100901

Errors and omissions excepted.