

MC90 EU

LTE terminal



The MC90 EU 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 TCP/IP, FTP(S), HTTP(S) and MQTT directly.

Key features & functionalities:

- IoT/M2M-optimized LTE Cat 4 cellular modem
- Quectel EC200T module integrated
- Worldwide LTE, UMTS/HSPA(+) and GSM/GPRS/EDGE coverage



LTE Cat 4



RS-232



USB 2.0

MC90 EU

Technical Data

Product		Art.-No.
Model designation	MC90 EU Terminal	194308
General		Description
Type	LTE Cat 4 cellular modem	x
Dimensions (W x H x D)	74 x 33 x 65 mm	x
Weight	approx. 80 g	x
Supply voltage	6 V to 30 V DC (min. 12 W guaranteed output power of power supply)	x
Operation temperature	-35°C to +75°C	x
Housing	ABS	x
Protection class	IP20	x
Mounting	Tabletop / DIN rail (with optional mounting kit)	x
Wireless module embedded	Quectel EC200T	x
Mobile		
Supporting networks	LTE-FDD: B1/B3/B5/B7/B8/B20/B28	x
	LTE-TDD: B38/B40/B41	x
	WCDMA: B1/B5/B8	x
	GSM: 900/1800MHz	x
Transmission rates LTE-FDD	Up to 50 Mbps upload and 150 Mbps download	x
Transmission rates LTE-TDD	Up to 30 Mbps upload and 130 Mbps download	x
Transmission rates HSPA+	Up to 21 Mbps download	x
Transmission rates HSUPA	Up to 5.76 Mbps upload	x
Transmission rates WCDMA	Up to 384 kbps upload and 384 kbps download	x
Transmission rates EDGE	Up to 236.8 kbps upload and 236.8 kbps download	x
Transmission rates GPRS	Up to 85.6 kbps upload and 85.6 kbps download	x
Interfaces		
Power	RJ12	x
RS-232	Sub-D	x
USB	2.0 Type B	x
GSM antenna	SMA (female)	x
SIM	Mini SIM (lockable)	x
Other properties		
Protocols	TCP, UDP, PPP, FTP, HTTP, NTP, PING, QMI, NITZ, SMTP, MQTT, CMUX, HTTPS, FTPS, SMTPS, SSL, MMS, FILE	x
Approvals	CE; Country-specific approvals upon request	
Accessories		Art.-No.
Portable antenna	GSM/UMTS/LTE, 50 mm, SMA (male)	101188
Magnetic base antenna	GSM/UMTS/LTE, 2 dBi, 2.5 m RG174, SMA male	101057
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
Data cable RS232	9 pin plug / 9 pin jack, 1.5 m	100891
Mounting Kit	For DIN rail	100901

Errors and omissions excepted.