

MC92

Alarm terminal



The MC92 Alarm terminal is suitable for use over LTE with fallback to UMTS, EDGE and GSM.

Using classical AT commands, e.g. sending of short messages via SMS, HTTP(S), MQTT or E-mails via SMTP can be accomplished.

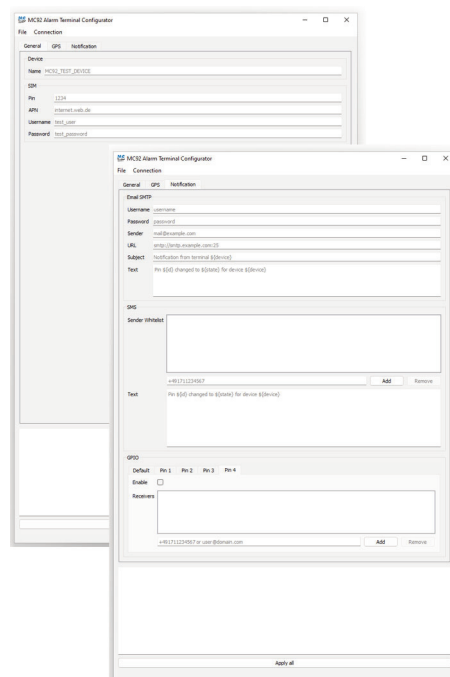
In addition, it has the possibility to react to status information via inputs and outputs.

One application example is alarm management for technical installations:

The MC92 Alarm terminal is a cost-effective solution for detecting faults. It can monitor the operating status of equipment and send alarms as well as commands (such as an emergency shutdown).

Key features & functionalities:

- Alarm terminal with mobile 4G LTE modem
- Quectel EC21-E module integrated
- Quectel Enhanced AT Commands
- Metal housing
- Industrial platform
- Easy Configuration via MC Configurator



4G LTE



RS232 (optional instead of RS485)



RS485



2in/2out or 4in



USB 2.0 (optional)



GPS/GNSS (optional)

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Technical Data

Product	MC92	
Model	Alarm Terminal	
General	Description	
Type	Wireless 4G LTE Cat 1 data terminal	x
Dimensions (W x H x D)	44 x 105 x 84 mm	x
Weight	approx. 270 g	x
Supply voltage	8 to 30 V DC	x
Operation temperature	-10 °C to +60 °C	x
Housing	Aluminium	x
Protection class	IP20	x
Mounting	Tabeltop / DIN rail	x
Wireless module embedded	Quectel EC21-E	x
Mobile		
Supporting networks	LTE FDD: Bands: 1, 3, 5, 7, 8, 20 HSDPA/HSUPA/HSPA+: Bands: 1, 5, 8, all bands with diversity GSM/GPRS/EDGE: Bands: 3, 8	x
Transmission rates LTE	Up to 5 Mbps uplink and 10 Mbps downlink	x
Transmission rates HSPA+	Up to 5.76 Mbps uplink and 21.6 Mbps downlink	x
Transmission rates EDGE	Up to 236.8 kbps uplink and 236.8 kbps downlink	x
Transmission rates GPRS	Up to 85.6 kbps uplink and 85.6 kbps downlink	x
Antenna connections	SMA (female)	1
Interfaces		
USB	USB 2.0 Type A	Optional
GPIO	2in + 2out or 4in	x
RS232	DB9 (RX, TX, RTS, CTS, DTR, DCD, RI); optional instead of RS485	x
RS485	Plug-in screw-type terminal	x
Power	Plug-in screw-type terminal	x
LED NET	LTE (always on)	x
LED1-4	Free programmable	x
LED PWR	Power	x
GPS	GPS/GLONASS/BeiDou/Galileo	Optional
SIM	Mini SIM	x
Other properties		
Configurations	Configuration via MC Configurator (Configurator package on request)	x
Approval	CE	x
Delivery includes	Description	
Top-hat rail holder	DIN rail	x
Printed documentation	Quick Guide	x

Mistakes and changes are reserved.

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Variants/Accessories

Variants		Part-No.
MC92 Alarm terminal	2in + 2 out	162504
MC92 Alarm terminal	4in	162507
MC92 Alarm terminal with USB	2in + 2 out	162505
MC92 Alarm terminal with USB	4in	162508
MC92 Alarm terminal with USB + GPS	2in + 2 out	162506
MC92 Alarm terminal with USB + GPS	4in	162509

Accessories	Description	Part-No.
Top-hat rail power supply	12VDC with Phoenix connector	100909
Power supply	EU approval, Input: 100 - 240 V AC, Output 24 V DC / 1.0A	100877
Serial data cable	RS232 Sub D9 (female) with 3pin plug, 1 m	162500
USB Cable	A/B, 1 m	100897
USB Cable	A/B, 1,8 m	100898
Portable antenna	GSM/UMTS/WLAN/LTE, bendable, 163 x 22 x 7 mm, SMA (male)	101292
Portable LTE-MIMO antenna	Desk/window mount, GSM/UMTS/LTE, 2 x 2m RG174 SMA (male)	101268
Magnetic base antenna	GSM/UMTS/LTE, 3 m RG174 SMA (male), Ø 31 x 72 mm	101296
Omnidirectional antenna	Wall mounting (indoor/outdoor), GSM/ISM/UMTS/LTE, length 269 mm, 5m CFD195 low loss SMA (male)	100966
Omnidirectional antenna	Screw mounting, GSM/GPS/UMTS/LTE, 2 x 3 m RG174 SMA (male)	101033