



MLB-G1103

LTE Wireless Terminal

➔ DATASHEET





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MLB-G1103 is a LTE wireless terminal designed for RS-232/422/485 communication over TCP/IP via any readily available LTE carrier networks. Overall, it is more cost and time effective to establish communications between machine to machine over diverse locations.

MLB-G1103 terminal uses DB9 connector as communication interface and the DC jack as power input. The LEDs are used to indicate the status of the terminal.

MLB-G1103 terminal can be used to provide wireless communications to link with different applications, including metering, fleet and asset management, vending, security and alarm monitoring, e-maintenance and other telemetry applications.

Modbus

SMS
Configuration

-40 ~ +75°C

Industrial
Design

Features

- 4G/3G/2G
- MCCP/MCCU support
- Build in watchdog and reconnection
- Event trigger for DI, relay changed via SMS or data
- Supports 4 connections (Max.) for server mode and 5 connections (Max.) for client mode.
- Modbus
- CE certification

General Features	
Frequency Range	MLB-G1103: <ul style="list-style-type: none"> • LTE: 700/800/900/1800/2100 MHz • UMTS/HSPA+: 900/2100MHz • GSM/GPRS/EDGE: 900/1800MHz
Protocol Stack	TCP/UDP/FTP/HTTP/SMTP
Power Supply Input	5~42VDC
Power Consumption	Working Mode : 102 mA @12V Standby Mode : 29 mA @12V
Humidity	5~95% (non-condensing).
Operating Temperature	-40~+75°C
Switch Off Protection	+90°C
Dimension (L) x (W) x (H)	119.5 x 89 x 26.9mm (excluding connectors)
Weight	200g (without antenna)
Casing Material	Metal
Data Transmission	
LTE	DL:10.2 Mbps / UL:5.2Mbps (MAX.) LTE Cat.1
HSPA	DL 7.2Mbps, UL 5.7Mbps HSDPA Cat.8 / HSUPA Cat.6
UMTS	DL 384Kbps, UL 384kbps
GPRS/EPGR	GPRS: <ul style="list-style-type: none"> • Multislot Class 12 • Full PBCCH support • Mobile Station Class B EGPRS: <ul style="list-style-type: none"> • Multislot Class 12 • EDGE E2 power class for 8 PSK • SRB loopback and test mode B • PBCCH support • Mobile Station Class B
SMS	<ul style="list-style-type: none"> • Point-to-point MT and MO • Cell broadcast • Text and PDU mode
Operating Mode	Transparent (TCP server/TCP client/UDP) TCP server/TCP client/UDP SMS/AT command
Serial Mode	RS-232/422/485
Serial Parameter	Data Bits: 7, 8 Stop Bits: 1, 2 Parity: None, Even, Odd Flow Control: RTS/CTS Baud Rate: 1200 - 921600 selectable Serial Signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

Relay	1 output with current carrying capacity of 2A @ 40VDC
Digital Inputs	2 electrically isolated inputs: +13~+30V for state "1" (on) +3~-30V for state "0" (off)
ESD Protection	15 KV
Heart Beat Packet	Yes
ID with Packet	Yes (32 Bytes MAX.)
Data Buffering	1 M
Data Delimiter	Yes
Event Trigger	GPRS/Reboot/IO/Relay
MCCP/MCCU	API : MLiS Cellular Control Protocol (MCCP) Utility : MLiS Cellular Configuration Utility (MCCU)
Modbus	Yes
Interfaces	
RF Antenna Socket	50 Ohm SMA
Power Connector	DC jack connector
SIM Card Num	1
SIM Slot Type	Flip-up
Serial Interface	DB9 connector (male)
LED	6 x Working Status Indicator 3 x Cellular Signal Indicator
Reset	HW Reset
Approval	
Certification	EMC EN55032/35 RF EN301489-1 EN301489-52 EN62311 Safety LVD 60950-1 NCC PLMN10 CNS13438 CNS13438 CNS14336-1