

### Product Overview

The MLI<sup>S</sup> MLB-G1101 is a Dual Band 2G / 3G terminal designed for RS232 / RS422 / RS485 communications over TCP / IP via any readily available 2G / 3G carrier networks. Overall, it is more cost and time effective to establish communications between Machine to Machine over diverse locations.

The MLB-G1101 terminal can be used to provide wireless communications to link with many applications, including metering, fleet and asset management, vending, security and alarm monitoring, e-maintenance and other telemetry applications.

The MLB-G1101 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.



#### MLiS MLB-G1101

MLiS MLB-G1101 is a Dual Band 2G / 3G terminal that offers the following features,

- Dual Band 2G / 3G (EU / US)
- Built-in 1M data buffer
- MCCP / MCCU support
- EMC / EMS / CCC / CE / IEC60950-1, IEC61000-4-5LV1 approval ready



General Features	
Frequency Range	EU GSM / GPRS / EDGE : 900 / 1800 MHz and UMTS / HSPA+ : 900 / 2100 MHz US GSM / GPRS / EDGE850 / 1900 MHz and UMTS / HSPA+ : 850 / 1900 MHz
Protocol Stack	TCP/ UDP/ HTTP/ FTP
Power Supply Input	5 - 32 VDC
Relative Humidity	90% MAX
Operating Temperature	-40°C to 85°C
Switch Off Protection	+90°C
Dimension (L) x (W) x (H)	119.5 x 89 x 26.9 mm (excluding connectors)
Weight	200g
Casing Material	Metal
Data Transmission	
GPRS	Multi-slot Class 12, Mobile Station Class B
EDGE	Multi-slot Class 12
CSD	-9.6 kbps, non-transparent, V.110
SMS	MT, MO, Cell Broadcast, Text and PDU mode
Serial Parameter	Data Bits : 5, 6, 7, 8 Stop Bits : 1, 1.5, 2 Parity : None, Even, Odd, Space, Mark Flow Control : RTS/ CTS, DTR/ DSR Baudrate : 9600-115200 selectable Serial Signals : TxD, RxD, RTS, CTS, DTR, DSR, DCD, RST (reset circuit), GND
Relay	1 output with current carrying capacity of 1A @ 24VDC
Digital Inputs	2 electrically isolated inputs : +13 to +30V for state "1" (On) and +3 to -30V for state "0" (Off)
ESD Protection	15KV
Data buffering	1M
Data Delimiter	Yes
Data Length Packing	Yes
MCCP / MCCU	Yes API : MLiS Cellular Control Protocol (= MCCP) Utility: MLiS Cellular Configuration Utility (= MCCU)
Interfaces	
RF Antenna Socket	50Ohm SMA
Power Connector	DC jack connector
SIM Card Slot	Flip-up type
Serial Interface	DB9 connector (Female)
LED	8 x for Working Status Indicator, 4 x for Network Status Indicator
Approval	
Certification	EMC / EMS / CCC / CE (IEC60950-1, IEC61000-4-5 LV1) Approval ready



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