

M-100
GSM EXPANSION MODEM



MAIN FEATURES

- *SIM900 module based*
- *4G with automatic fallback to 3G and 2G*
- *Accepts Standard SIM Card*
- *RS-232 port*
- *Accepts AT commands directly from PC.*
- *Comes with antenna*
- *850/900/1800/1900/2100MHz Quad-band*
- *Supply voltage range: 7-32V*
- *Power consumption: 50mA @5V*
- *Fully enclosed*
- *Weight (Kg) : 0.2*

DESCRIPTION

M-100 modem adds GSM connectivity to your data logging project through the gp RS232 expansion port.

M-100 modem is based on the SIMCOM SIM900 module.

M-100 modem is complemented by an internal Mini-Sim card slot and RS-232 communications port.

The RS-232 port can be used to connect the module directly to a PC for software development purposes (eg. AT commands).

M-100 modem can be interfaced to any device via RS-232 and powered from an external power supply with V-in 7-32VDC.

M-100 modem has a very stable internal power regulation with significant filtering to smooth out peak current draw during transmission.

TECHNICAL DATA

Input Power

Standard input voltage : 7 VDC - 32 VDC (12VDC Typical) .

Supply current : 1A

Protection of supply : transient protected and filtered

Interface Port

Physical connector : 9pin male RS232 Supply level 5V

Signal type : TTL for SIM900

Interface port protection : ESD, transients

GSM Modem

Antenna connector : SMA

Protocols supported : TCP, UDP, IPv4

Interface type : UART

Comms speed : 9600-115200 Baud

Control signals : UART, PWR

Control protocol : AT commands

RS-232 Interface

Physical connector : DB-9, male

Comms speed : 9600-115200 Baud

Function : MCU UART or Modem control

Control signals : RX, TX

Operating temp.

0 - 70°C

Storage temp.

-40-70°C

Protection Class

IP- 54

Dimensions

Width / Height / Depth : 110 mm / 50 mm / 110 mm

Weight : 160 g

ELECTRICAL CONNECTIONS AND INDICATION

Connections and Indication

PIN 1 – Power supply

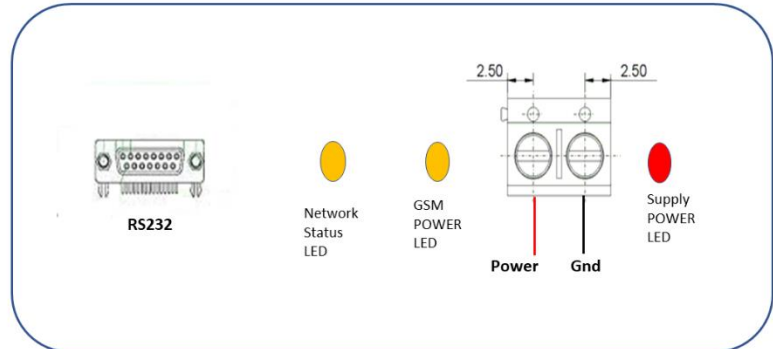
PIN 2 – Ground

LED 1 – Power supply LED

LED 2 – GSM ON

LED 3 – Network Status LED

RS232 male connector



HOW TO ORDER

M-100 – AA – BB – OPTIONS

AA – SIMCOM SIM900 (Typical)

BB – SUPPLY VOLTAGE
12 VDC (TYPICAL).