

Your vision, automated



MCOM400IRTUS

4G, 3G, 2G, IOT BASED RS232/RS485 MODEM



The MCOM400IRTUS is a rugged industrial cellular modem designed for reliable M2M communication, enabling real-time monitoring and control of remote PLCs or MODBUS devices. Operating in transparent mode with a minimum 1-second data update rate, it supports global cellular standards (GSM/GPRS/EDGE/UMTS/HSPA/FDD LTE) and offers flexible serial communication (RS485/RS232). Its robust design and multiple LED indicators make it ideal for industrial automation, energy monitoring, water/flow metering, and remote device applications.

➤ CELLULAR INTERFACE

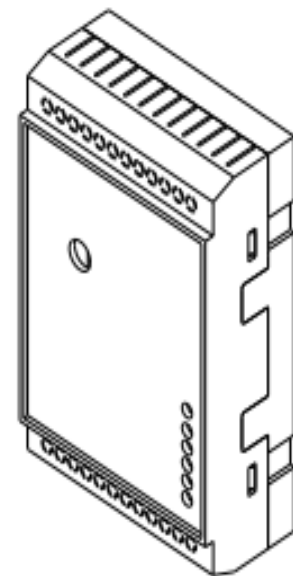
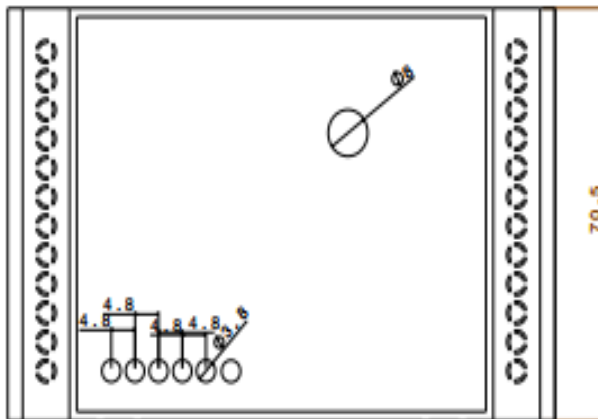
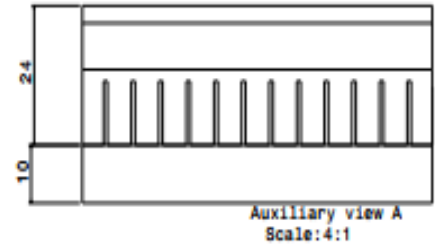
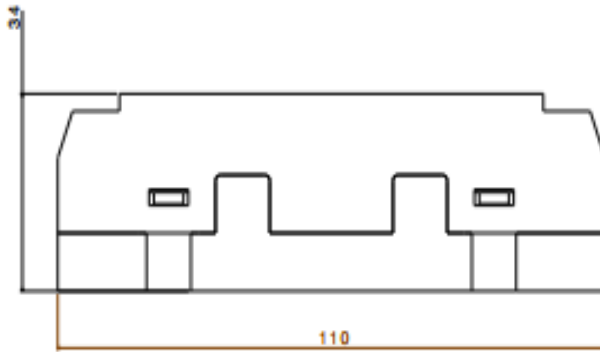
- Standards : GSM/GPRS/EDGE/UMTS/HSPA/FDD LTE
- GPRS/EDGE: 850/900/1800/1900 MHz
- HSUPA: 900/2100 or 850/1900 MHz optional, DL/UL 7.2/5.76 Mbps, fallback to 2G.
- HSPA+: 850/900/1900/2100 or 900/2100 or 850/1900 MHz optional, DL/UL 14.4/5.76 Mbps, fallback to 2G, FDD LTE: 800/900/1800/2100/2600 MHz or 700MHz (B17 or B13) optional, DL/UL 100/50 Mbps, fallback to 3G/2G.
- SIM: 1 x (3V & 1.8V)
- Antenna Interface: SMA Female, 50 ohms impedance. 32-bit high performance microcontroller MCU.

SERIAL COMMUNICATION	
Interface standard and protocol	RS485, RS232 and MODBUS RTU
Communication address	1 TO 32
Transmission mode	Half duplex, Full duplex
Transmission distance	1000m for RS485 and 15m for RS232
Transmission speed	300, 600, 1200, 2400, 4800, 9600, 19200 (in bps)
Data type	Integer, Float, Hex
Parity	None, Odd, Even
Stop bit	1 or 2
Response time	1000ms

FEATURES	APPLICATION
<ul style="list-style-type: none"> • Supports all types of 4G SIM cards. • The data transmission mode is 4G/3G/2G (auto-switchable). • Supports all types of M2M SIMs. • Small antennae included with the device. High gain antennae optional, in case of low connectivity. • One Serial Port for RS232 or RS485 for external device interface. • Six LED indicators provide status for power, server connection, GPRS connection, SIM registration or network, RS485 indication, 4G indication. 	<ul style="list-style-type: none"> • PLC/MODBUS device data monitoring and controlling • Energy Monitoring, e.g. Electricity, Solar, Wind, etc. • Water Metering/Flow Meter • Distribution Automation • Automatic Meter Reading • Industrial Automation • Remote Devices

Performance Parameters	
Operating Temperature	25 to 85°C
Storage Temperature	-40 to 85°C
Humidity	5 to 95% RH
Input Voltage	10 to 40 VDC
Power Consumption	Idle: 100 mA @ 12 V, Data Link: 500 to 1000 mA (peak) @ 12V
Dimension (L x W x H)	110 x 70 x 35 mm

➤ DIMENSION DRAWING



Isometric view
Scale: 3:1

➤ CONNECTION DETAILS

