

Your vision, automated



MCOM404IRTUS

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



The MCOM404IRTUS is a compact and cost-effective mini version of the MCOM400IRTUS industrial IoT modem series. It is designed by considering reduced size and optimized cost while providing reliable 4G/3G/2G connectivity with RS232 and RS485 communication support.

Unlike the customizable MCOM400IRTUS, which supports DI, DO, and AI options, the MCOM404IRTUS focuses on essential serial communication applications such as PLC connectivity, industrial automation, telemetry, and remote monitoring.

Its compact design, easy installation, and stable communication performance make it suitable for space-constrained industrial applications.

➤ CELLULAR INTERFACE

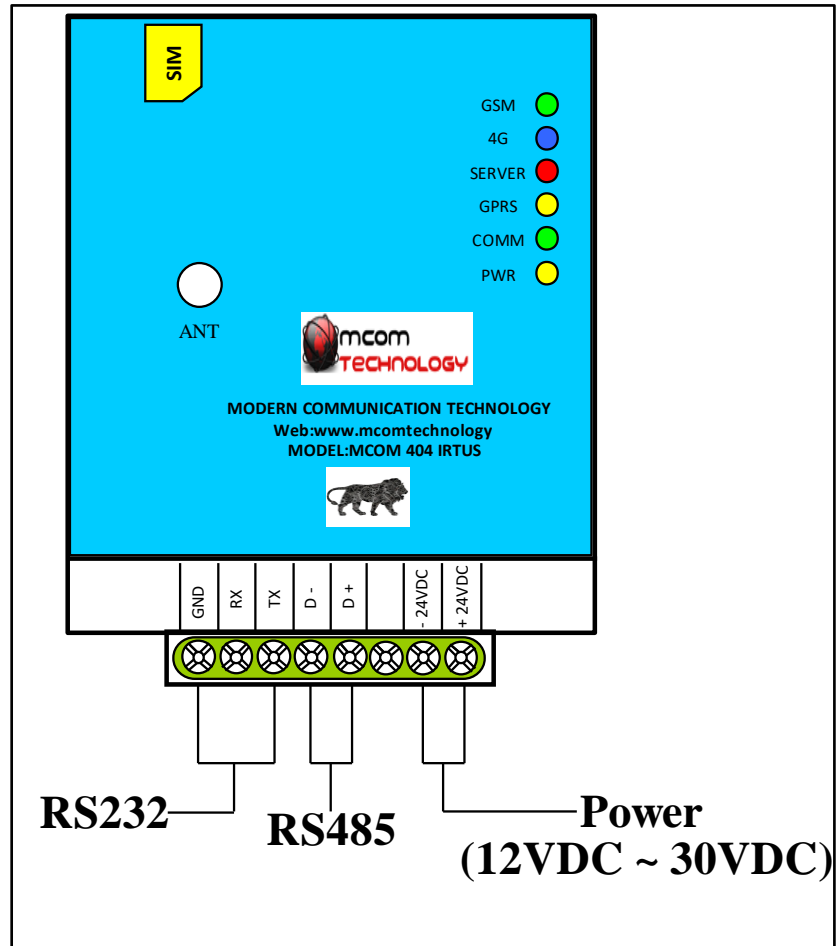
- Standards: GSM/GPRS/EDGE/UMTS/HSPA/FDD LTE
- GPRS/EDGE: 850/900/1800/1900 MHz
- HSUPA: 900/2100 or 850/1900 MHz optional, DL/UL 7.2/5.76 Mbps, fallback to 2G.
- HSPA+: 850/900/1900/2100 or 900/2100 or 850/1900 MHz optional, DL/UL 14.4/5.76 Mbps, fallback to 2G, FDD LTE: 800/900/1800/2100/2600 MHz or 700MHz (B17 or B13) optional, DL/UL 100/50 Mbps, fall-back 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 & protocol	RS485, RS232 and MODBUS RTU
Communication address	1 TO 255
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 antenna included with the device. High gain antenna 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, 4G indication & RS485 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

➤ CONNECTION DETAILS



MODERN COMMUNICATION TECHNOLOGY

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