MCOM301TRTU

Industrial Cellular MODEM for GPRS

MCOM301TRTU is a rugged cellular MODEM offering state-of-the-art mobile connectivity for machine to machine (M2M) applications. It is the updated version of MCOM300TRTU with remote serial programming and dual serial port setup. It also works in transparent mode. This device is suitable for data monitoring and operation from remote device, and for remote PLC or any MODBUS communication via serial port. The minimum data rate from remote to central server is 5 sec.

Key Features:-

- Supports all types of 4G SIM cards except Jio.

- The data transmission mode is 2G/GPRS/EDGE.

- Supports all types of M2M SIMs.

- Supports quad band auto switchable.

- Small antennae included with the device. High gain antennae optional, in case of low connectivity.

- Two Serial Port for RS232 **and** RS485 for external device interface.

- Four LED indicators provide status for power, server connection, GPRS connection, SIM registration or network.

- Phase AC input supply, worked within power supply range of 50 to 240V AC, 50 Hz.

- Operating temperature: 25 to 85 °C.

- The metal enclosure can be mounted on a DIN-rail or on the wall.

- Supports MODBUS/RTU.

- Data transfer protocol to remote server via TCP/IP.

- Auto reboot during a pre-set time of a day.

- Industrial class design suitable for long time work applications.

- Facility to store mobile numbers for authorization of remote configuration.

- Configuration of device parameters via serial port or remotely by SMS.

- Handshaking software is provided at central server for device-SCADA/web application communication.

Specifications:-

Cellular Interface

- Standards: GSM/GPRS

- GPRS/EDGE: 850/900/1800/1900 MHz

- SIM: 1 x (3V & 1.8V)

- Antenna Interface: SMA Female, 50 ohms impedance.

- 32-bit high performance microcontroller MCU

Applications:-

- 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

Packing List:-

- MCOM301TRTU MODEM.

- AC/DC Power Supply Adapter (optional)

- 20-pin terminal block for power, I/O and Serial Port.

- Document and Software CD.

- Rubber SMA Antenna.

Serial Interface:-

- Number of Ports: 1 x RS-232 AND 1 x RS-485

- ESD Protection: 15KV

- Baud Rate: 50bps to 115200bps.

- RS-232: TxD, RxD, GND

- RS-485: Data+ (D+), Data- (D-),GND

- Interface: 20 Pin terminal blocks with lock Digital Input.

- Digital Filtering Time Interval: Software selectable

- Over-voltage Protection: 36 VDC

- Over-voltage Protection: 40 VDC, Over-current Protection: 0.5 A

- LED Indicators: 4 indicators, Power, Server, GPRS, and GSM.

- Built-in RTC, Watchdog, Timer

If required more I/O port, can increase with I/O card. I/O card 8DI, 8DO, 8AI and Rs485.

Modern Communication Technology

Power Supply and Consumption:-

- Power Supply Interface: 20 pin terminal block with lock Input Voltage: 9 to 40 VDC

- Power Consumption: Idle: 100 mA @ 12 V, Data Link: 500 to 1000 mA (peak) @ 12V.

Physical Characteristics:-

- Housing & Weight: aluminum, 500g

- Dimension: (L x W x H): 100 x 60 x 40 mm

- Installation: 35mm Din-Rail

Environmental Limits

- Operating Temperature & Humidity: -25 to 85°C, 5 to 95% RH

- Storage Temperature: -40 to 85°C

Approvals for GSM Device

CE Compliant, ISO 9001:2015
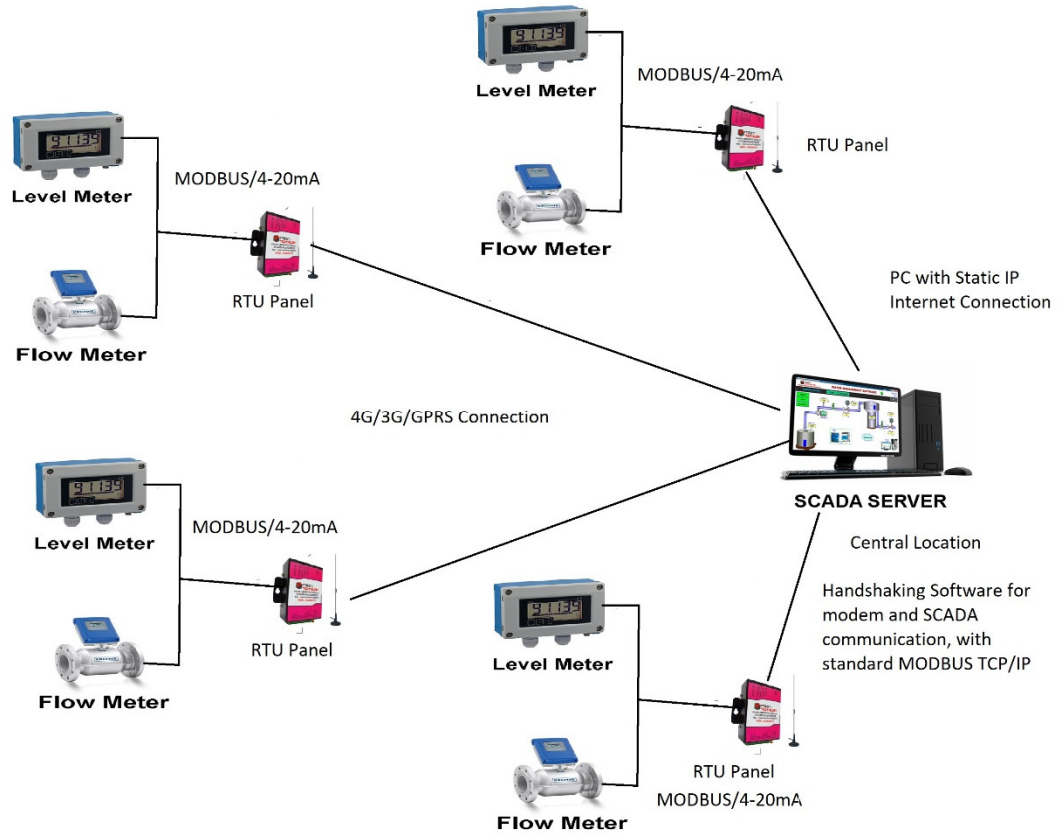
Warranty:

Warranty Period: 1 Year

Contact:

www.mcomtechnology.com/www.mcomiotsolutions.com

ravi@mcomtechnology.com

Mob:-7769827105/94051434829/9021065965.

Flow Diagram