

4G M2M Gateway with IEC101/IEC104/DNP3 Protocols, GSF M2M 100D



GSF M2M 100D is an IoT Distributed Processing Unit designed for Wireless remote and large data transmission. It provides the powerful processing ability of data from Ethernet, RS232, RS485, WIFI or other different communication interfaces for different SCADA platforms.

Benefits

- Protocols supported : IEC101, IEC104, Modbus RTU, Modbus TCP DNP3.0 etc.
- Advanced Failover : Maximizes uptime by seamlessly switching between the multiple Internet interfaces (cellular, WAN, WIFI, Dual-SIM Active/Standby).
- Multiple Tunneling schemes : Secure your data using a variety of VPN tunneling schemes, including IPSec, L2TP, PPTP, OpenVPN and GRE.
- Ethernet, Serial and I/O for connecting diverse field assets.
- Flexible WIFI: 802.11b/g/n(2.4GHz) and 802.11ac(5.8GHz) dual-band WIFI, configurable
- WIFI as WAN or Access point, WIFI Security (WEP / WPA / WPA2 Mixed Mode) and multiple SSID.
- Gigabit Ethernet ports.

Specifications

CELLULAR WAN

- Supported Frequency Bands
- LTE: B1, B2, B3, B4, B5, B7, B8, B20, B28
- WCDMA: 2100(B1), 1900(B2), 850(B5)
- EVDO/CDMA: 800(BC0)
- GSM/GPRS/EDGE: 850/900/1800/1900
- Automatic SIM based network operator switching

HOST INTERFACES

- 5 of 10/100/1000 Base-T RJ45 Ethernet port, 4 LAN ports & 1 WAN Port
- 1-RS232/RS485, 4-RS485 Serial Port
- Each of the 5 RS485 ports can multidrop
- 32 devices
- 4 SMA antenna connectors (WIFI and Double-cellular)
- 6 pin, 14 pin 3.5mm terminal block

INPUT/OUTPUT

- 6 pin 3.5mm terminal block.
- 2- DI, 1 DO, 1- Relay.
- Input ON Voltage: 5 to 30 VDC.
- Input OFF Voltage: 0 to 3 VDC.
- Output < 50mA @ 30VDC.
- Relay : 1A 250VAC/30VDC

LAN

- DNS, DNS Proxy
- DHCP Server
- IP Pass through (option)
- VLAN
- Host Interface Watchdog
- PPPoE.
- Modbus TCP

SERIAL

- TCP/UDP Mode
- Modbus (ASCII, RTU, DTU, Variable)
- PPP
- Reverse Telnet

San Telequip (P) Ltd.,
504 & 505 Deron Heights, Baner Road
Pune 411045, India
Phone : +91-20-27293455, 9764027070, 8390069393
email : info@santelequip.com



EVENTS ENGINE (Optional)

- Custom event triggers and reports
- Configurable interface, on programming
- Event Types: Digital Input, Network Parameters
- Data Usage, Timer, Power, Device
- Temperature
- Report Types: TCP, UDP, SMS, SNMP Trap, HTTP, HTTPS, Json
- Event Actions: Drive Relay output

WiFi

- IEEE802.11 ac, compatible IEEE 802.11 b/g/n
- AP and client mode
- Adjustable Output power (Max: 26dBm)
- Access point for up to 30 clients
- Simultaneous access point/client mode
- WEP, WPA-PSK, WPA2-PSK etc. Security

NETWORK AND ROUTING

- Network Address Translation (NAT)
- Port Forwarding
- Host Port Routing
- VRRP
- Reliable Static Route
- Dynamic DNS

VPN

- IPSec, GRE, and OPENVPN Client
- Up to 10 concurrent tunnels
- Split Tunnel
- Dead Peer Detection (DPD)
- Multiple Subnets
- VPN Failover

SECURITY

- Remote Authentication
- DMZ
- Inbound and Outbound Port filtering
- Inbound and Outbound Trusted IP
- MAC Address Filtering

GPS (Optional)

- Antenna Interface: SMA Female, 50 ohms impedance
- Tracking Sensitivity: better than -144 dBm
- Horizontal position accuracy: 2.5 m
- Time-T-First-Fix: 29 s
- Protocol: NMEA-0183 V2.3

OPERATING ENVIRONMENT

- Operating Temperature: -35°C to +75°C
- Storage Temperature: -40°C to 85°C
- Humidity: 95% (Non-condensing)

DIMENSIONS

- Housing & Weight: Metal, 700g
- Dimension: 174 x 124 x 40 mm, L x W x H
- Installation: 34.6 mm Din-Rail / Wall mount or Desktop

MANAGEMENT INTERFACES

- Web-Based User Interface
- Device Configuration Templates
- Software and radio module firmware updates
- AT Command Line Interface (Telnet/SSH/Serial)
- SMS Commands (option)
- SNMP

POWER

Power Supply : 24V DC. Range 9 to 36V DC. 2 Pin 3.5mm terminal block

San Telequip (P) Ltd.,
 504 & 505 Deron Heights, Baner Road
 Pune 411045, India
 Phone : +91-20-27293455, 9764027070, 8390069393
 email : info@santelequip.com

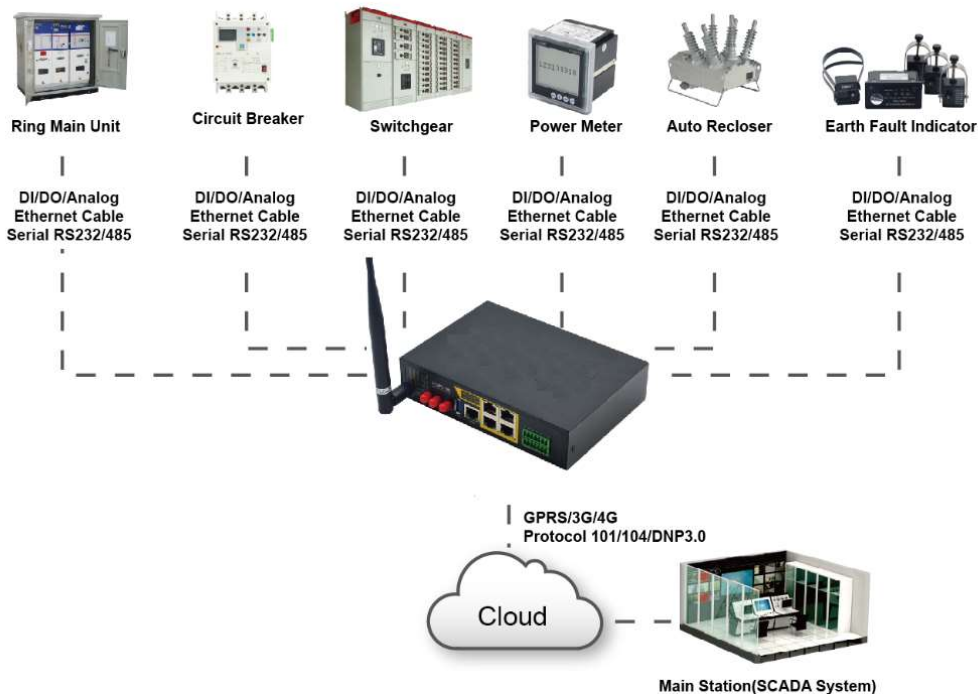


OTHERS

- Real Time Clock
- Supports upto 32GB External Memory card
- USB Port

| | |
|-----------------------------|---|
| Model Code Selection | : GSF M2M 100D L 1/2 |
| GSF M2M 100D | : Base Model for 4G M2M Gateway, 4 Giga LAN, 1 Giga LAN/WAN ports, Dual band WiFi, SIM*1(Expandable to 2) 2*DI, 1*DO, 1*Relay 1*RS232/RS485 and 4*RS485 |
| L | : LTE |
| 1/2 | : Single Sim / Dual SIM (Active / Standby Mode) |

Application Diagram



**Data Acquisition and Transmission
 & Wireless RTU Protocol Converter**