

M2M 4G Industrial Giga Gateway, Model GSF M2M 200R



M2M Gateway is an intelligent Cellular Gateway designed for industrial applications requiring faultless connectivity. It provides a secure, reliable, real-time, remote connectivity for SCADA, distribution management systems, metering etc. Software-defined, multi-carrier networking, Dual SIM models, 802.11n/802.11ac and global 2.5G/3G/HSPA+/LTE options make it easy to get connected. With DIN-rail mounting, wide operating temperature range, and IP30 metal housing, the GSF M2M 200R is a convenient yet reliable solution for any industrial wireless applications.

Benefits

- High-performance industrial-grade 32-bit communication processor
- High-performance industrial-grade wireless module
- 4 Giga Ethernet Port, 1 WAN port and 1 WiFi port
- 1 Serial RS232/RS485 port
- Support Modbus RTU, Modbus TCP Conversion and DNP3 Protocols
- Advanced Failover: Maximizes uptime by seamlessly switching between the multiple Internet interfaces (Cellular, WAN, WIFI, Optional Dual-SIM)
- Multiple Tunneling Schemes: Secure your data using a variety of VPN tunneling schemes, including IPSec, L2TP, PPTP, OpenVPN and GRE
- Flexible WIFI: 802.11 b/g/n, configurable WIFI as WAN or access point, WIFI Security (WEP / WPA / WPA2 Mixed Mode) and multiple SSID
- Ethernet, Serial and I/O for connecting diverse field assets.
- Remote Management provides mass configuration, device management, OTA update, and troubleshooting tools.

Specifications

Hardware

CPU : Industrial-grade 32-bit communication processor
FLASH: 16MB, Extensible to 32MB
DDR3 : 128MB

CELLULAR WAN

Supported Frequency Bands

- LTE: Band 1/3, Band 2/4/5/13/17/25 (Optional)
- WCDMA: 2100(B1), 1900(B2), 850(B5)
- EV-DO/CDMA: 800(BC0)
- GSM/GPRS/EDGE: 850/900/1800/1900
- Automatic SIM based network operator switching

Bandwidth

- FDD LTE (Downlink 100Mbps, Uplink 50Mbps)
- TDD LTE (Downlink 61Mbps, Uplink 18Mbps)

Power & Sensitivity

- Power : < 23dBm
- Sensitivity: <-93.3dBm

HOST INTERFACES

- 5 of 10/100/1000 Base-T ports. RJ45 Ethernet Connectors. 1.5KV Magnetic Isolation
- 1 of RS232/ RS485 Serial Console Port. RJ45 Connector. 1.5KV ESD Protection
- 3 SMA antenna connectors (Wi-Fi and Double-cellular)
- Active GPS antenna support (option)
- Micro SD Memory Card

INPUT/OUTPUT

- (2) DI, (1) DO, (1) Relay.
- Input ON Voltage: 5 to 30 V DC.
- Input OFF Voltage: 0 to 3 V DC.
- Output < 50mA @ 30VDC.
- Relay: 1A 250VAC/30VDC

LAN Protocols

- TCP/IP, UDP, ICMP, Telnet, ARP
- DNS, DDNS, DNS Proxy, DHCP Server
- SNMP, HTTP, HTTPS, SMTP, STMP, IP Pass through (option)
- VLAN
- Host Interface Watchdog
- PPPoE
- Modbus RTU, Modbus TCP, DNP3 (optional)

SERIAL Protocols

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

WiFi

Bandwidth : IEEE802.11b/g : 54Mbps, IEEE802.11n: 150Mbps
Security : Support WEP, WPA, WPA2 and other encryption methods, WPS (Optional)
Power : 20dBm (11n), 24dBm (11g), 26dBm (11b)
Sensitivity : <-72dBm @ 54Mbps AP and Client mode.
Access point for up to 30 clients
Simultaneous access point/client mode

NETWORK AND ROUTING Protocols

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

VPN

- IPSec, GRE, L2TP, PPTP, OpenVPN
- 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.

MANAGEMENT INTERFACES

- Web-Based User Interface
- Device Configuration Templates
- Software and radio module firmware updates
- AT Command Line Interface (Telnet/SSH/Serial)
- SNMP
- SMS Commands (Option)
- Support different LAN IP Address (Optional)

GPS (Option)

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

POWER

- 24VDC. Range 5 to 35VDC
- 12V/1.5A (standard), 8W. Communication consumption: 300mA @ 12V
- Reverse Polarity, Over Voltage Protection & 2KV Surge Protection
- Connectors : 2 Pin, 3.5mm Terminal Block

PHYSICAL

- Housing & Weight : Metal, 520g
- Dimension : 133 x 115.7 x 45 mm (L x W x H)
- Installation : 34.6 mm Din-Rail or wall mounting or desktop
- Ingress Protection : IP30

OPERATION ENVIRONMENT

- Operating Temperature : -35°C to +75°C / -31°F to +167°F
- Storage Temperature : -40°C to 85°C / -40°F to 185°F
- Humidity : 90% RH @ 60°C

San Telequip (P) Ltd.,
504,505 Deron Heights, Baner Road
Pune 411 045, India
Phone : +91-20-27293455, 9764027070, 8390069393
email : info@santelequip.com



Ordering Code : GSF M2M 200R L 1/2 RS485 D A

GSF M2M 200R : Base Model for M2M Gateway with Giga Ports
L : LTE
1/2 : Single or Dual SIM
RS485 : Fixed. RS232/RS485 Selectable
D : Optional DNP3
A : Optional Dual 4G Module. Active / Active Mode.

Note : WiFi, IO : 2*DI, 1*DO & 1*Relay as default