SAN TELEQUIP

Connecting. Converting. Leading !

M2M 3G/4G Industrial Router, Model GSF M2M 100R

M2M Gateway is an intelligent cellular router 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 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 M2M GATEWAY is a convenient yet reliable solution for any industrial wireless applications.

Benefits

- Advanced Failover: Maximizes uptime by seamlessly switching between the multiple Internet interfaces (Cellular, WAN, WIFI, 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.
- 4 Ethernet Port, 1 WAN port and 1 WiFi port
- 1 Serial RS232/RS485 port
- Support Modbus RTU, Modbus TCP Conversion and DNP3 Protocols.

Specifications
CELLULAR WAN
Supported Frequency Bands
- LTE: B1, B2, B3, B4, B5, B7, B8, B20, B28
- 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

HOST INTERFACES
- 5 of 10/100 Base-T Ethernet port. RJ45 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 VDC.
- Input OFF Voltage: 0 to 3 VDC.
- Output < 50mA @ 30VDC.
- Relay:1A 250VAC/30VDC

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

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

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

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.

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 supported. Range 5-35VDC
- 12V/1.5A (standard), 8W. Communication consumption: <700mA @ 12V
- Reverse Polarity, Over Voltage Protection & 2KV Surge Protection
- Connectors : 2 Pin, 3.5mm Terminal Block

PHYSICAL

- Housing & Weight : Metal, 520g
- Dimension   : (L x W x H): 133 x 115.7 x 45 mm
- 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

Ordering Code	: GSF M2M 100R W/FL/L 1/2 RS485 D
GSF M2M 100R	: Base Model for M2M Gateway with 10/100 M Ports
W/FL/L	: 3G/WCDMA/LTE
1/2	: Single or Dual SIM
RS485	: Fixed. RS232/RS485 Selectable
D	: DNP3

Note : WiFi, IO fixed : 2*DI, 1*DO & 1*Relay as default
: GPS as an option is available in all the models
: All the 1 SIM card versions can be expandable to 2
: In Dual SIM mode, there are 2 Cellular modules & both SIM work together