

San Telequip (P) Ltd.,
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Phone : +91-20-27293455, 9764027070, 8390069393 Connecting. Converting. Leading !
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M2M 3G/4G Industrial Router, Model GSF 100

Overview



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 or RS485 port
- Support Modbus RTU to Modbus TCP Conversion.

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 RJ45 Ethernet port.
- 1 of RS232 or RS485 Serial Console Port
- 3 SMA antenna connectors (WI-FI and Double-cellular)
- Active GPS antenna support (option)

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

LAN

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

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- PPPoE
- Modbus TCP

SERIAL

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

WIFI

- IEEE802.11 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 (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

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

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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

24VDC supported. Range 5-35VDC
12V/1.5A (standard), 8W. Communication consumption: <700mA @ 12V

DIMENSIONS

- 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

Model No.	CELLULAR DETAILS	WiFi	SIM	IO
GSF100 W	WCDMA / HSDPA / HSUPA / HSPA+	Y	1	Y
GSF100 FL	LTE / WCDMA	Y	1	Y
GSF100 L	LTE	Y	1	Y
GSF100 W2	WCDMA / HSDPA / HSUPA / HSPA+, Dual Module	Y	2	Y
GSF100 FL2	LTE / WCDMA, Dual Module	Y	2	Y
GSF100 L2	LTE, Dual Module	Y	2	Y

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