

VX-FL-301G

4-Port Industrial 4G LTE Cellular Router with GPS



Product Description

Versa Technology's Industrial-grade VX-FL-301G, 4G LTE Cellular Router, is a highly reliable and secure wireless communications gateway designed for Industrial IoT and M2M applications. Featuring the flexible LAN/WAN Ethernet options, the VX-FL-301G provides 4-ports 10/100 Base-TX Ethernet interface. With GPS function, the VX-FL-301G can accurately track the router location and display sync time for managing existing devices quickly. It is equipped with dual SIM that supports failover and roaming over to ensure uninterrupted connectivity.

Enterprise-Grade Software Features

Supporting RS232, RS485 and DI/DO, the VX-FL-301G allows you to customize your professional applications in diverse environments. The device is administrated via web GUI, Telnet, SSH v2 and HTTP/HTTPS. It also provides enterprise-grade software features, such as Modbus for SCADA system or M2M connectivity, and MQTT for M2M application. The critical VPN security supports IPSec, OpenVPN, and GRE, etc. enhances encryption for authentication and transmission for a wide range of applications and vertical machine-to-machine (M2M) markets.

Built for secure and uninterrupted operation in harsh environments, the VX-FL-301G offers an operating temperature from -20 to 70°C. Having trusted industrial-grade certificates, Versa's VX-FL-301G is the best choices for mission-critical cellular communications.

Features:

- Highly reliable and secure for mission-critical cellular communications
- Support multi-band connectivity with FDD LTE/ TDD LTE/ WCDMA/ GSM/ LTE Cat4
- Built-in dual SIM for network redundancy
- Integrated dual detachable antenna against radio interference
- Equipped with GPS for quickly and easily deploying your devices
- LED indicators for connection and data transmission status
- Metal Housing with IP40 industrial grade protection
- IPv6/IPv4 dual stack and all applications are IPv6 ready
- Support various serial communication protocols for rich connectivity
- Enhance security and encryption for authentication and transmission

Specifications

<h2>LTE Band/Frequency</h2>	<ul style="list-style-type: none"> • FDD LTE: B1/B3/B5/B7/B8/B20 • TDD LTE: B38/B40/B41 • WCDMA: B1/B5/B8 • GSM: 900/1800 MHz • LTE Cat4
<h2>Antenna Connector</h2>	<ul style="list-style-type: none"> • 3 x SMA (MAIN + AUX + GPS)
<h2>Processor & I/O Interface</h2>	<ul style="list-style-type: none"> • High performance 528 MHz CPU with 512 Mbytes of DDR3 memory • 2 x SIM Card Slots • 3 x LAN 10/100 Mbps Ethernet port • 1 x WAN 10/100 Mbps Ethernet port • Reset Button • Console: 1 x RS232 (9-pin Sub-D) • 2 x SMA connectors for detachable LTE antenna • 1 x GPS detachable antenna (Optional) • 1 x RS485 (D+/D-) • 1 x RS232 (TXD/RXD) • 2 x DI, 1 x DO (Alarm +/-)
<h2>Physical Characteristics</h2>	<ul style="list-style-type: none"> • Enclosure: Metal Shell • Housing: IP40 Protection • Dimensions (W x H x D): 60 x 110 x 106 mm • Weight: 452 g • Installation: DIN Rail (Default) or Wall Mount (Optional)
<h2>LED Display</h2>	<ul style="list-style-type: none"> • 1 x System status LED (Green) • 1 x VPN status LED (Green) • 1 x SIM1 status LED (Green) • 1 x SIM2 status LED (Green) • Ethernet status LEDs (Green for LINK/ACT, Yellow for SPEED) • 2 x Mobile connection strength LEDs (Green)
<h2>Power Supply</h2>	<ul style="list-style-type: none"> • Power Consumption: 7 Watts (Max) • Power Input: 10 ~ 32V DC

<h3>MTBF</h3>	<ul style="list-style-type: none"> • 148,930 hrs (MIL-HDBK-217-FN2)
<h3>Network Protocols</h3>	<ul style="list-style-type: none"> • IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, Modbus, VRRP, OSPF, Message Queue Telemetry Transport (MQTT Broker), BGP
<h3>Routing/Firewall</h3>	<ul style="list-style-type: none"> • NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing and RIP-1/2
<h3>VPN Security</h3>	<ul style="list-style-type: none"> • OpenVPN • IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256) • GRE • PPTP • L2TP
<h3>Wireless Connectivity</h3>	<ul style="list-style-type: none"> • Two SIM for failover/ roaming over/ back up • Two SIM data usage control • Seamless multi WAN connections switch
<h3>Alarms/Other</h3>	<ul style="list-style-type: none"> • DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, E-mail • DDNS, QoS, Virtual COM, UPnP
<h3>Management</h3>	<ul style="list-style-type: none"> • Web GUI for remote and local management, CLI • Dual Image firmware upgrade by Web GUI • Syslog monitor • SNMP, TR069 • Remote management via SSH v2, HTTPS • Local management via Telnet, SSH v2, HTTP/HTTPS
<h3>Environment</h3>	<ul style="list-style-type: none"> • Operating Temperature: -20 ~ +70°C • Storage Temperature: -40 ~ +85°C • Ambient Relative Humidity: 10 ~ 95% (non-condensing) • Humidity: 0 ~ 95% (non-condensing)

Standards & Certifications

- **EMC:** CE, FCC
- **EMI:** EN 55032 Class A, FCC Part 15 Subpart B Class A
- **EMS:** EN 55024, EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 3, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 (PFMF) Level 4, EN 61000-4-11, EN 61000-6-2 (Industrial), EN 61000-6-4 (Industrial)
- **Rail Traffic:** EN50121-4
- **Vibration:** IEC60068-2-6
- **Safety:** EN60950-1
- **Highly Accelerated Life Test (HALT)**

Dimensions

