

VX-FL-301

4-Port Industrial 4G LTE Cellular Router



Product Description

Versa Technology's VX-FL-301 4G/LTE Cellular Router is a highly reliable and secure wireless communications gateway designed for industrial networking. It supports multi-band connectivity including FDD/TDD LTE, WCDMA and GSM for a wide range of applications and vertical machine-to-machine (M2M) markets. To enhance reliability, the VX-FL-301 is equipped with dual SIM that supports failover and roaming over to ensure uninterrupted connectivity for mission-critical cellular communications.

Enterprise-Grade Software Features

With flexible LAN/WAN Ethernet options, the VX-FL-301 allows you to customize your professional applications in diverse environments. It also provides enterprise-grade software features, such as Quality of Service (QoS) for traffic prioritization, IPSec, OpenVPN, Firewall security and more. The device is administrated via web GUI, Telnet, SSH v2 and HTTP/HTTPS.

Built for secure and uninterrupted operation in harsh environments, the VX-FL-301 supports extended operating temperatures from -20 to 70°C and a flexible input voltage range of 10-32V DC. Versa's VX-FL-301 is an ideal cellular communication solution for heavy industrial use.

Features:

- Highly reliable and secure for mission-critical cellular communications
- Provide flexible options to configure LAN/ WAN ports
- 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
- LED indicators for connection and data transmission status
- Industrial rated from -20 to +70°C for use in harsh environments
- 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"> • 2 x SMA (MAIN + AUX)
<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 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

