

# VX-FL-300

## 2-Port Industrial 4G LTE Cellular Router



### Product Description

Versa Technology's VX-FL-300 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-300 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-300 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-300 supports extended operating temperatures from -20 to 70°C and a flexible input voltage range of 10-32V DC. Versa's VX-FL-300 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"> <li>• <b>FDD LTE:</b> B1/B3/B5/B7/B8/B20</li> <li>• <b>TDD LTE:</b> B38/B40/B41</li> <li>• <b>WCDMA:</b> B1/B5/B8</li> <li>• <b>GSM:</b> 900/1800 MHz</li> <li>• LTE Cat4</li> </ul>
<h2>Antenna Connector</h2>	<ul style="list-style-type: none"> <li>• 2 x SMA (MAIN + AUX)</li> </ul>
<h2>Processor &amp; I/O Interface</h2>	<ul style="list-style-type: none"> <li>• High performance 528 MHz CPU with 512 Mbytes of DDR3 memory</li> <li>• 2 x SIM Card Slots</li> <li>• 1 x LAN 10/100 Mbps Ethernet port</li> <li>• 1 x WAN 10/100 Mbps Ethernet port</li> <li>• Reset Button</li> <li>• Console: 1 x RS232 (9-pin Sub-D)</li> <li>• 2 x SMA connectors for detachable LTE antenna</li> <li>• 1 x RS485 (D+/D-)</li> <li>• 1 x RS232 (TXD/RXD)</li> <li>• 2 x DI, 1 x DO (Alarm +/-)</li> </ul>
<h2>Physical Characteristics</h2>	<ul style="list-style-type: none"> <li>• <b>Enclosure:</b> Metal Shell</li> <li>• <b>Housing:</b> IP40 Protection</li> <li>• <b>Dimensions (W x H x D):</b> 60 x 110 x 106 mm</li> <li>• <b>Weight:</b> 451 g (0.9943 lb)</li> <li>• <b>Installation:</b> DIN Rail (Default) or Wall Mount (Optional)</li> </ul>
<h2>LED Display</h2>	<ul style="list-style-type: none"> <li>• 1 x System status LED (Green)</li> <li>• 1 x VPN status LED (Green)</li> <li>• 1 x SIM1 status LED (Green)</li> <li>• 1 x SIM2 status LED (Green)</li> <li>• Ethernet status LEDs (Green for LINK/ACT, Yellow for SPEED)</li> <li>• 2 x Mobile connection strength LEDs (Green)</li> </ul>
<h2>Power Supply</h2>	<ul style="list-style-type: none"> <li>• <b>Power Consumption:</b> 7 Watts (Max)</li> <li>• <b>Power Input:</b> 10 ~ 32V DC</li> </ul>
<h2>MTBF</h2>	<ul style="list-style-type: none"> <li>• 155,899 hrs (MIL-HDBK-217-FN2)</li> </ul>

## Network Protocols

- 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

## Routing/Firewall

- NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing and RIP-1/2

## VPN Security

- OpenVPN
- IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256)
- GRE
- PPTP
- L2TP

## Wireless Connectivity

- Two SIM for failover/ roaming over/ back up
- Two SIM data usage control
- Seamless multi WAN connections switch

## Alarms/Other

- DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, E-mail
- DDNS, QoS, Virtual COM, UPnP

## Management

- 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

## Environment

- **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)**

## Drawing

