

VX-IFL-301PG

4-Port Industrial 4G LTE Cellular PoE Router with GPS (-40 ~ 75°C)



Product Description

Versa Technology's Industrial-grade VX-IFL-301PG 4G LTE Cellular Router is highly reliable and secure wireless communications gateway designed for Industrial IoT and M2M applications. The VX-IFL-301PG provides 3-port 10/100 Base-TX Ethernet interfaces and 1 WAN port with 802.3at/af PoE PD function, eliminating the need for separate power and data cables. Built for secure and uninterrupted operation in harsh environments, the VX-IFL-301PG supports extended operating temperature from -40 to 75°C and a flexible input voltage range of 10-32V DC.

Enterprise-Grade Software Features

With GPS function, the VX-IFL-301PG can accurately track the fixed locations where routers position and sync the time to quickly manage existing devices. It supports multi-band connectivity including FDD/TDD LTE, WCDMA and GSM. To enhance reliability, the VX-IFL-301PG is equipped with dual SIM that supports failover and roaming over to customize your professional applications in diverse environments for mission-critical cellular communications.

Versa's VX-IFL-301PG also provides enterprise-grade software features, such as TR069 for remote management and Quality of Service (QoS) for traffic prioritization. Featuring VPN Tunnels, such as IPSec, OpenVPN to ensure the critical security, and providing multiple network protocols for a wide range of applications and vertical machine-to-machine (M2M) markets, such as Modbus, MQTT. The device is administrated via web GUI, Telnet, SSH v2 and HTTP/HTTPS. The VX-IFL-301PG 4G LTE Cellular Router is an ideal cellular communications solution for heavy industrial use with approved industrial-grade certificates.

Features

- Highly reliable and secure for mission-critical cellular communications
- Support multi-band connectivity with FDD LTE/ TDD LTE/ WCDMA/ GSM/ LTE Cat4
- Provide 3-port ETH LANs, 1-port ETH WAN with IEEE 802.3at/af PoE PD
- 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
- Industrial rated from -40 to +75°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

LTE Band/Frequency

- **FDD LTE:** B1/B3/B5/B7/B8/B20
- **TDD LTE:** B38/B40/B41
- **WCDMA:** B1/B5/B8
- **GSM:** 900/1800 MHz
- LTE Cat4

Antenna Connector

- 3 x SMA (MAIN + AUX + GPS)

Processor & I/O Interface

- 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 with IEEE 802.3at/af PoE PD
- 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 +/-)

Physical Characteristics

- **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)

LED Display

- 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)

Power Supply

- **Power Consumption:** 7 Watts (Max)
- **Power Input:** 10 ~ 32V DC

MTBF

- 148,930 hrs (MIL-HDBK-217-FN2)

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:** -40 ~ +75°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

