

LTE Industrial router, Dual SIM CAT 6 + GPS

TeleWell SF301 series 4G/LTE Cellular Router are 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, **SF301** series are equipped with dual SIM that support failover and roaming over to ensure uninterrupted connectivity for mission-critical cellular communications. Virtual Remote Management, Dual Sim usage.



Technical specifications

LTE Interface

- FDD LTE: B1/B3/B5/B7/B8/B20
- TDD LTE: B38/B40/B41
- WCDMA: B1/B5/B8
- GSM: 900/1800 MHz
- LTE **CAT 6**

Processor & I/O Interface

- High performance 528 MHz CPU with 512 Mbytes of DDR3 memory
- 2 x SIM Card Slots
- 1 x LAN 10/100 Mbps Ethernet port (Model: SF300)
- 3 x LAN 10/100 Mbps Ethernet ports (Model: SF301)
- 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 +/-)

Physical Characteristics

- Enclosure?Metal Shell
- Housing?IP40 Protection
- Dimensions (W x H x D)?60 x 110 x 106 mm
- 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 \(mean time between failures\)](#)

- SF301: 148,930 hrs (MIL-HDBK-217-FN2)

[Software](#)

- Network Protocols:

IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, DNS Proxy, Modbus, VRRP, OSPF, Message Queue Telemetry Transport (MQTT Broker)

- Routing/Firewall:

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

- VPN:

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

- Wireless Connectivity:

Two SIM for failover/ roaming over/ back up

Two SIM data usage control

Seamless multi WAN connections switch

- Others:

DDNS, QoS, Virtual COM, UPnP

- Alarm:

DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, E-mail

[Management Software](#)

- 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 and 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 1 / 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)