



G806 specification

4G industrial cellular VPN router



The G806 is an IoT cellular router that integrates 4G LTE, Wi-Fi, and VPN technologies to provide an easy, reliable, secure Internet connectivity and high-speed data access for equipment networking. With technologies such as 4G wireless wide area network, Dual Ethernet ports (LAN + WAN), Wi-Fi wireless local area network it provides uninterrupted multiple network access capabilities.

This product is suitable for the networking of unattended devices and sites. It is embedded with watchdog and multilayer link detection mechanisms to ensure reliable and stable communications. Using our remote management platform, users can manage their network efficiently.

The G806 can be used in a wide range of industrial and commercial IoT applications, providing an option of good balance between cost and performance. The router occupies a very small footprint which is suitable for large-scale distributed industrial applications, such as smart express cabinets, charging piles, CCTV, bank ATM machines, ticketing machines, vending machines, Tower monitoring, digital signage, electricity, water conservancy, environmental protection, etc.

Key Features

■ Stable And Reliable

- Metal shell, IP30 protection. Ethernet ports support 1.5KV isolation transformer protection.
- Wide operating temperature. Wide voltage input, reverse polarity protection.
- ESD, Surge, EFT protection.
- Embedded hardware watchdog, self-recovers from malfunctions, maintaining high device availability

■ Uninterrupted network access

- Supports 2G/3G/4G network all over the world, supports APN/VPDN sim card
- Failover between 4G and WAN, ensures automatic switch to alternative backup connection, effectively ensuring uninterrupted data transmission.
- VPN tunnel detection: maintains stable connection of the VPN tunnel, ensuring continuous transmission.
- Multi-layer link detection mechanism, automatic redial and recovery.

Specifications

| Hardware Specifications | | |
|-----------------------------------|---|--|
| Cellular Interface | Antenna | 1 x SMA-K Note: North America models: 2 x SMA 4G antenna connectors. |
| | SIM card | 1 x (3 V & 1.8 V) Standard 2FF SIM, drawer-type sim card slots |
| Ethernet | 1 x WAN port (can be configured to LAN) 10/100 Mbps, compliance with IEEE 802.3, supports auto MDI/MDIX, 1.5KV network isolation transformer protection | |
| | 1 x LAN port, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX, 1.5KV network isolation transformer protection | |
| Indicators | LED | <p>PWR: always on after powered on</p> <p>WLAN: always solid on when WiFi is enabled and working properly</p> <p>WAN: solid when cable is connected, blinking when data is transmitting and receiving</p> <p>LAN: solid when cable is connected, blinking when data is transmitting and receiving</p> <p>2/3/4G mode indicator: 2G led is on after connected to 2G network 3G led is on after connected to 3G network Both leds is on after connected to 4G network</p> <p>Signal strength: 4 solid bars, strongest signal</p> |
| WiFi Interface | Standards & Frequency | IEEE 802.11b/g/n, 2.4GHz, AP mode |
| | Data speed | IEEE 802.11b/g, maximum 54Mbps. IEEE 802.11n, maximum 150Mbps |
| | Antenna | 1 x SMA-K |
| | Transmission distance | 80 meters by line of sight. Actual transmission distance depends on environment of the site. |
| Power Supply | Adaptor | DC 12V/1A |
| | Connector | DC Power Jack Barrel Type Female 5.5*2.1mm Round socket or 2 PIN industrial terminal block, reverse polarity protection |
| | Input voltage | DC 9~36V |
| | Working power | Average 175mA/12V |
| Physical Characteristics | Housing | Metal shell, IP30 |
| | Dimensions | 110.0*94.0*29.0 mm (L*W*H) |
| | Installation method | Panel mounting, DIN-Rail mounting |
| | EMC | Static IEC61000-4-2, level 2 |
| | | Pulsed Electric Field IEC61000-4-4, level 2 |
| | | Surge IEC61000-4-5, level 2 |
| | Operating temperature | -20℃ ~ +70℃ |
| Others | Storage temperature | -40℃ ~ +125℃ |
| | Operating humidity | 5% ~ 95% RH (non-condensing) |
| | Reload | Pinhole reset button |
| Certificate | TBD | Debug interface (TTL Level) |
| | Embedded Watchdog | Device runs self-detection, auto recovers from malfunctions |
| CE, CCC, FCC, ANATEL, PTCRB, AT&T | | |

| Software Specifications | | |
|-------------------------|-------------------|--|
| Network Connection | WAN protocol | PPP, PPPoE, DHCP client |
| | LAN protocol | ARP, DHCP server, NAT |
| | 4G network access | Auto APN/VPDN, private network Access authentication: CHAP/PAP |
| | WLAN security | Open system,WPA/WPA2 PSK TKIP/AES encryption |
| | IP routing | Static routing |
| | Network diagnosis | Ping,route trace,DNS |
| Device management | Configuration | Web |
| | Remote management | Telnet, SSH, AT command,SNMP |
| | PUSR platform | Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router |
| Security | Failover backup | Failover between 4G and WAN, ensures automatic switch to alternative backup connection |
| | Firewall | DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control |
| | VPN | Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols |
| Service | DDNS | Remote access the device through domain name |
| | Alarm | Email,SMS |
| | Others | NTP client Timing task |