

ZR2000 3G/4G wireless router



Industrial design

- Adopt high-performance industrial-grade wireless module
- Adopt high-performance industrial-grade 32-bit MIPS processor
- Low power consumption, low heat generation, fast speed and high stability
- Support ear mounting
- Adopt sheet metal cold-rolled steel shell
- Power supply: 7.5~32V DC
- Support standard industrial-grade push rod SIM/USIM card design

Network characteristics

- Link real-time monitoring
- Support VPDN dedicated network card, APN Internet of Things card, ordinary mobile phone data card of many operators
- Support serial port DTU function, Modbus protocol
- Support QOS, support UPnP
- Support UDP data broadcast relay
- Support port forwarding

Stable and reliable

- Using software and hardware watchdog and multi-level link detection mechanism, with automatic fault detection, automatic Dynamic recovery capability to ensure stable and reliable operation of the equipment
- Multiple device self-check mechanism to ensure smooth link and alarm
- ESD protection for each interface to prevent electrostatic shock
- With 4G network signal indicator, it is divided into three levels to display the field signal strength

Platform remote management

- Equipment online monitoring
- Remote flow monitoring
- Remote parameter configuration
- Remote restart and log query
- Remote device upgrade

Product Description

ZR2000 series 3G/4G wireless router is a kind of Internet of Things wireless communication router, supporting international standard FDD-LTE, TDD-LTE, WCDMA (HSPA+), CDMA2000 (EVDO), TD-SCDMA. The 3G/4G mobile broadband network standard provides users with convenient and fast high-speed network transmission functions.

This series of products adopt a high-performance 32-bit professional network communication processor and an embedded real-time operating system as a software support platform to provide users with a safe, high-speed, stable and reliable 3G/4G wireless routing network, and supports 2 Ethernet RJ45 interface and communication serial port.

This series of products can be widely used in finance, postal services, smart grids, charging piles, self-service equipment, smart transportation, smart express cabinets, environmental protection monitoring, fire monitoring, security monitoring, water conservancy monitoring, public safety, advertising, industrial industry control, earthquake monitoring, weather monitoring, instrument monitoring and other industries.

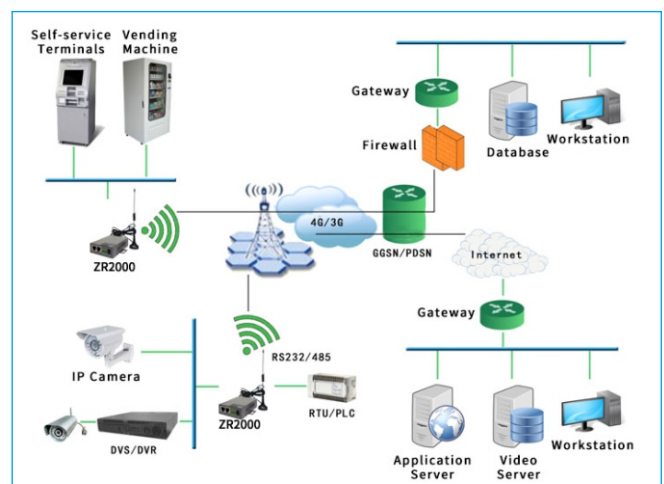
Features

- Support 4G LTE network, backward compatible with 3G and 2G
- Support wired and 4G load balancing or backup, automatic switching
- Support 1 WAN + 4 LAN, freely configurable and switchable
- Provide standard RS-232/485 serial port, support serial port DTU (data transmission terminal) function
- Support WiFi, support IEEE802.11b/g/n
- Support hardware WDT, provide anti-drop mechanism to ensure that the data terminal is always online
- Support multiple VPN protocols (GRE, PPTP, L2TP, IPSec, openVPN, N2N) protocols
- Support DHCP, DDNS, firewall, NAT, and DMZ host functions
- Support ICMP, TCP, UDP, Telnet, SSH, FTP, HTTP, HTTPS and other network protocols
- Support SNMP management protocol
- Support timing restart

Extensions

- Support extended high-precision independent GPS positioning function [optional]
- Support foreign frequency band [optional]
- Support Wi-Fi forced advertisement push function [optional]
- Support private network version 1.4G frequency band, 1.8G frequency band [optional]

Combination Chart Reference

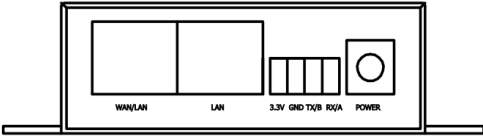


Product selection list

ZR2000	WCDMA Standard Edition	EV-DO Standard Edition	4GLTE-5 Standard Edition	4GLTE-7 Standard Edition	customized
WAN/LAN	●	●	●	●	○
LAN	●	●	●	●	○
HSPA+	●	-	●	●	○
EV-DO	-	●	-	●	○
TD-Scdma	-	-	●	●	○
FDD-LTE	-	-	●	●	○
TDD-LTE	-	-	●	●	○
WIFI-802.11N	○	○	○	○	○
RS232	●	●	●	●	○
Rs485	○	○	○	○	○
Reference model	ZR2620S	ZR2920S	ZR2520S	ZR2720S	

Note: ●Support - Not support ○ Optional

Technical Parameters

4G wireless parameters	<ul style="list-style-type: none"> ● Wireless module: industrial-grade wireless module ● Standards and frequency bands: FDD-LTE (Band1/3/5 B1/3/5/7/8/20 B2/4/5/12/13/17/25/26) TDD-LTE (Band38/Band39/Band40/Band41) HSPA (850/900/1900/2100MHz)/GSM850/900/1800/1900MHz EV-DO (800MHz), TD-Scdma (Band34, Band39) ● Theoretical broadband: FDD/TDD LTE: Uplink 50Mbps/Downlink 100Mbps HSPA+: Uplink 5.76Mbps/Downlink 21Mbps EVDO: Uplink 1.8Mbps/Downlink3.1Mbps ● Power consumption: 2~3W ● Receiving sensitivity: -108dBm
WiFi wireless parameters	<ul style="list-style-type: none"> ● Standard and frequency band broadband: Support IEEE802.11b/g/n standard, the highest rate is 150Mbps/300Mbps ● Security encryption: Support WEP, WPA, WPA2 and other encryption methods, optional WPS function ● Transmitting power: 16-17dBm (11g), 18-20dBm (11b) 15dBm (11n) ● Receiving sensitivity: <-72dBm@54Mbps
Interface Type	<ul style="list-style-type: none"> ● LAN: 1 LAN port, adaptive MDI/MDIX, built-in electromagnetic isolation protection ● WAN: 1 WAN port (can be modified to LAN port), adaptive MDI/MDIX, built-in electromagnetic isolation protection ● Serial port: 1 communication RS232/RS485 interface, suitable for acquisition equipment with RS232/485 interface ● Indicator light: 1X "PWR", 1X "WAN", 1X "LAN", 1X "NET" indicator light ● Antenna interface: 1 standard SMA 4G antenna interface, 1 standard SMA WiFi antenna interface, 1 standard SMA Aux/GPS reserved antenna interface, characteristic impedance 50 ohms ● SIM/USIM interface: standard industrial-grade drawer SIM/USIM Card interface, 1.8V/3V automatic detection ● Power interface: 7.5V~32V (standard DC 12V/1A), built-in power supply instant overvoltage protection ● Reset button: Press this button for 10 seconds to restore the parameter configuration of the device to the factory value
power supply	<ul style="list-style-type: none"> ● Standard: DC 12V/1.5A
Shape characteristics	<ul style="list-style-type: none"> ● Shell: Sheet metal cold rolled steel shell ● Dimensions: 95*70*25mm ● Weight: about 210g
Other parameters	<ul style="list-style-type: none"> ● CPU: Dual 560MHz ● Flash/RAM: 128Mb/1024Mb ● Working temperature: -30~+70°C ● Storage temperature: -40~+85°C ● Relative humidity: <95% non-condensing
ZR2000 series interface diagram	<p>Front panel:</p>  <p>Back panel:</p> 