



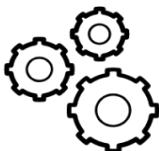
Industrial 4G Router

ZXF0251

Introduction

ZXF0251 is an industrial cellular router with embedded intelligent software features that are designed for multifarious M2M/IoT applications. Supporting global WCDMA and 4G LTE, ZXF0251 provides drop-in connectivity for operators and makes a giant leap in maximizing uptime.

Adopting high-performance and low-power consumption industrial grade CPU and wireless module, ZXF0251 is capable of providing wire-speed network with low power consumption small package to ensure the extremely safe and reliable



Industrial-grade Design

- ▶ High performance industrial-grade wireless communication module
- ▶ High performance industrial grade 32-bit MIPS processor
- ▶ Use plate metal CRS shell, heat dissipation is good
- ▶ Low power consumption and low heat generation
- ▶ Support Desktop or Wall mount installation Wide
- ▶ power input range: 7.5V~36V DC



Stability&Reliability

- ▶ Hardware and Software WDT design
- ▶ Built-in 1.5KV electromagnetic isolation protection for Ethernet interface
- ▶ Always keep online, reboot automatically if disconnected to ensure continual connection
- ▶ RS232 interface power and data isolation Remote online



Cloud platform remote management

- ▶ mornitoring
- ▶ Parameter configuration
- ▶ Equipment upgrade or reboot
- ▶ log query, parameter backup

Industrial 4G Router



High Performance

- ▶ 7.5V~36V DC
 - ▶ Multiple WAN connection methods, include Static IP/DHCP/PPPOE
 - ▶ Support VPN client&server: PPTP, L2TP,
 - ▶ Support DHCP, DDNS, Firewall, NAT, and DMZ host
 - ▶ Support SNMP , ICMP , TCP /IP , UDP , Telnet , SSH , FTP , HTTP , HTTPS network
 - ▶ Support scheduled reboot
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- ▶ 128MB RAM
 - ▶ Relay Serial port offer Data Transfer Unit(DTU) function
 - ▶ optional: Modbus TCP/Modbus RTU/MQTT industry
 - ▶ Protocol Support APN network access
 - ▶ WIFI Support 802.11b/g/n.....

Product Specification

cellular Parameter

Wireless Module Industrial-grade wireless communication module

Standard Frequency Refer to the catalog(Global bands,customized.)

FDD LTE:150(DL)/50(UL)Mbps |

Theoretical Bandwidth FDD LTE:112(DL)/10(UL)Mbps

HSPA+:5.76/21Mbps

Transmit Power 2.3W

Receiving Sensitivity <-109dBm

WIFI Parameter

Frequency Support IEEE802.11b/g/n, 2.4G, support AP mode

Security Encryption Support WEP, WPA, WPA2 and other encryption methods

Transmit Power 16-17dBm(11g),18-20dBm(11b),15dBm (11n)

Receiving Sensitivity <-72dBm@54Mbps

Hardware

CPU Industrial-grade 32-bit MIPS processor

Memory 16MB Flash,128MB DDR2 RAM

Industrial 4G Router



Interfaces

WAN	1xEthernet interface,Auto MDI/MDIX, built-in 1.5KV electromagnetic isolation protection,can be converted to LAN
LAN	1xEthernet interface (RJ45) ,Auto MDI/MDIX, built-in 1.5KV electromagnetic isolation protection
Serial Port	1xRS232
Indicators	"LAN1", " LAN2", "SYS", "LINK" four indicating lamps, the "LINK" is a color indicator (red: network signal is poor; Orange: network signal is general; green: network signal is good)
Antenna	3-4 standard SMA antenna interface (WIFI and 3G/4G), 50ΩSMA, GPS(optional)
SIM/UIM	Standard drawer type user card interface ,Support 1.8V/3V SIM/UIM card built-in 15KV ESD protection

Power

Reset Button	Restore the router's parameter configuration to factory values
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Power Supply

Standard	DC12V/1A
Range	7.5V-32V
Consumption	2.3W

Physical Characteristics

Housing	Metal
Dimensions	100*82*27mm
Weight	About 700g
Mounting	Desktop or wall or Din-rail mounting(require additional purchase of mounting accessories)

Environmental

Operating Temperature -30~+70°C

Storage Temperature -40~+80°C

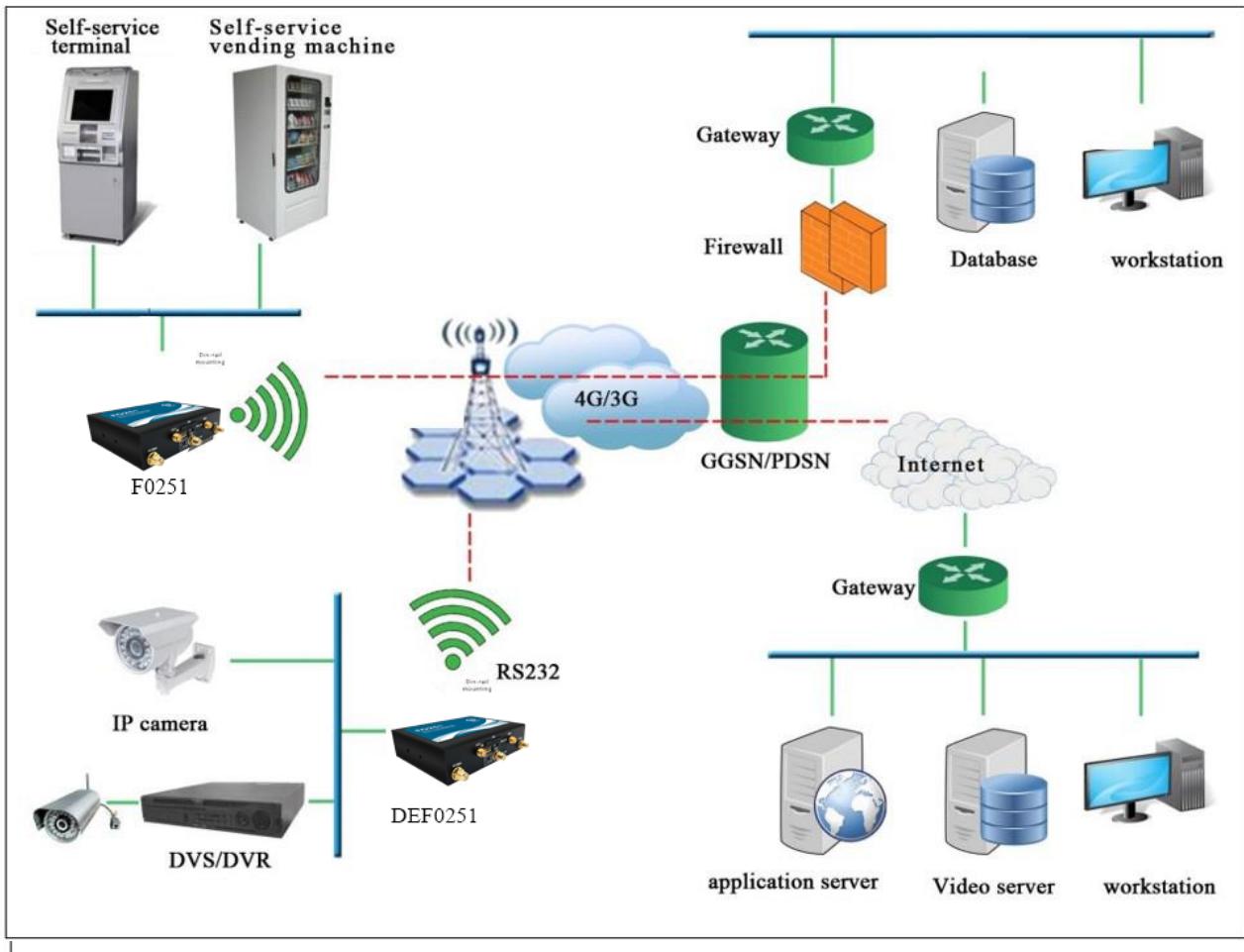
Relative Humidity 0% to 95% (No condensation)



Industrial 4G Router



Network Diagram



OUTDOOR HIGH-SPEED NETWORKING INDUSTRIAL WIRELESS ROUTER

WLAN/LAN, wired /4G intelligent switching, 4G networking



Powerful function, quality assurance



5G HIGH-SPEED
NETWORKING
Networking



5G DUAL
GIGABIT PORT
5g To gigabit port



RS232S+485 SERIAL PORT
Serial transmission



INDUSTRIAL
STANDARD
Industrial



SMALL VOLUME FOR
EASY INSTALLATION
Small volume

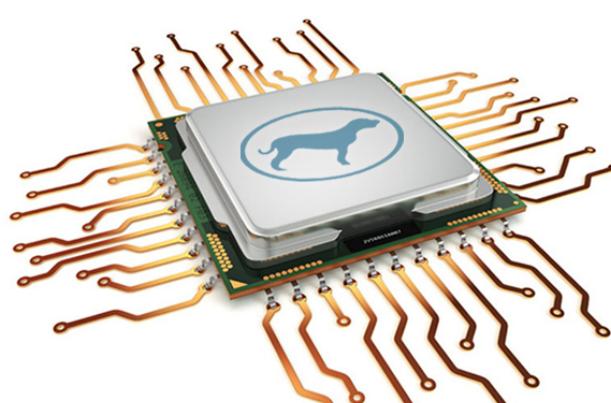


PLUG AND PLAY
Plug and play

INTELLIGENT HARDWARE AND SOFTWARE WATCHDOG DESIGN

INTELLIGENCE

7X24h stable operation



SERIAL PORT

Communication server

INTELLIGENCE

Supports serial client/server

Supports RS232/RS485



INTELLIGENCE

INTERFACE INFORMATION



Industrial 4G Router DEF0251



Catalog

Series	Model	Fruquency Band	Applicable Countries	Specification
DEF 0251	ZXF0251 S (Wifi) DEF0250 S (No Wifi)	TDD-LTE:B38/B39/B40/B41 FDD-LTE:B1/B3/B5/B8 UMTS:B1/B8 TD-SCDMA:B34/B39 EVDO:BC0 CDMA1x:BC0 GSM:B3/B8 GSM:B2/B3/B5/B8	Mainland China	
	ZXF0251 E (Wifi) DEF0250 E (No Wifi)	LTE FDD: B1/B3/B7/B8/B20/B28A LTE TDD: B38/B40/B41 WCDMA: B1/B8 GSM: B3/B8	Europe/Middle Asia/Africa/Korea/Thailand/India	
	ZXF0251 N (Wifi) DEF0250 N (No Wifi)	1.FDD:B2/4/5/12/13/17/B18/B25/26 TDD:B41 WCDMA:B2/4/5 EVDO:BC0/1 GSM:850/1900 2.LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5	North America	WiFi:IEEE802.11b/g/n Frequency 2.4Ghz EthernetPort:RJ45,1x10/100Mbps WAN+1x10/100Mbps LAN Serial Port:RS232+RS485(DTU) 1 Sim card slot(Nano card) Support VPN protocol SupportDHCP,DDNS,firewall,NAT,DMZ Support strong WDT, self-recovery, schedule reboot function, keeping always online Antenna:1x3dBi 4G Antenna(SMA),1x3dBi WiFi Antenna
	ZXF0251 A (Wifi) DEF0250 A (No Wifi)	FDD:B1/3/5/7/8/28 TDD:B40 WCDMA:B1/5/8 GSM:850/900/1800/1900	Australia/New Zealand/Taiwan	
	ZXF0251 V (Wifi) DEF0250 V (No Wifi)	FDD:B2/4/5/7/8/28 TDD:B40 WCDMA:B2/5/8 GSM:850/900/1800/1900	Latin America	
	ZXF0251 G (Wifi) DEF0250 G (No Wifi)	LTE-TDD: B34/B38/B39/B40/B41 LTEFDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66 UMTS/HSPA+:B1/B2/B4/B5/B6/B8/B19 GSM/GPRS/EDGE:850/900/1800/1900MHz	Globle	