



Industrial 5G Router ZXFT380

Introduction

ZXFT380 is a newly developed high-performance gigabit 5G industrial router that is an excellent wireless communication product based on 5G/4G network requirements. It is mainly applied to the data transmission business of industry users, supporting functions such as transparent data transmission, image transmission, device monitoring, and wireless routing internet access. Adopting high-performance 32-bit processors, it can process protocols and large amounts of data at high speed. It adopts Qualcomm industrial grade chips to integrate 5G high-speed networking equipment, with full network connectivity, providing 10/100M/1000M Ethernet ports and WIFI wireless interfaces to connect with various terminal devices.



Industrial-grade Design

- ▶ High performance industrial-grade wireless communication module
- ▶ High performance industrial grade 32-bit MIPS processor
- ▶ Adopting die-cast casing, with good heat dissipation
- ▶ Low power consumption and low heat generation
- ▶ Support Desktop or Wall mount installation
- ▶ POE 48V



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



Cloud platform remote management

- ▶ External high gain omnidirectional antenna, wireless signal 360 degrees without dead angles
- ▶ Supports dual band WiFi
- ▶ Hardware level watchdog, which can automatically recover from running faults
- ▶ Equipment upgrade or reboot
- ▶ log query, parameter backup

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High Performance

- ▶ POE 48V
- ▶ WAN protocol (optional) supports Static IP、DH CP、PPPo E
- ▶ Support VPN client&server: IPSec VPN, L2TP,PPTP,GRE,OPENVPN
- ▶ Supports NAT, PAT, DMZ, port mapping, virtual server supports IP packet/domain name/MAC address filtering
- ▶ Supports dynamic domain name resolution such as ORAY (peanut shell), DYDNS, CHANGEIP, 88ip, 3 322, etc
- ▶ Support remote restart and scheduled restart
- ▶ Supports ICMP detection and automatic connection when disconnected
- ▶ Hardware level watchdog, which can automatically recover from running faults
- ▶ Protocol Support VPN network access
- ▶ WIFI Support 2.4G / 5.8G.WiFi

Product Specification

cellular Parameter

Wireless Module	Industrial-grade wireless communication module
Standard Frequency	5G NR NSA: n41/n78/n79 5G NR SA: n1/n28*/n41/n77/n78/n79
Theoretical Bandwidth	LTE-FDD: B1/B2/B3/B5/B7/B8/B20/B28 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B2/B5/B8
standby power	160mA@48V DC
Working power consumption	250mA@48V DC

WIFI Parameter

Frequency	Support IEEE802.11n/g/b/a/ac
ip routing	Support St at ic Ro ut er 、RIP、OSPF (Optional)
Network format	5G/4G
Channel support	5G NR NSA n41/n78/n79, 5G NR SA n1/n28*/n41/n77/n78/n79 , LTE-FDD B1/B2/B3/B5/B7/B8/B20/B28

Hardware

CPU	Industrial-grade 32-bit MIPS processor
Flash	Using high-speed 512MB DDR3 with 32MB Nor Flash

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Interfaces

WAN	1*Shared with WAN port, capable of POE power supply, 48V
LAN	2 * LAN 10/100/1000Mbps adaptive
WiFi	Supports dual band WiFi
Indicators	4G indicator light, 5GNR indicator light, WiFi indicator light, SIG indicator light, CEL indicator light, power indicator light
Antenna	4* 5G interface+2 * 2.4G interface+2 * 5.8G interface
SIM	2* Standard SIM card (large card), the cover needs to be removed for use
protection grade	>IP65
Reset Button	Press and hold the reset button, and the system will be reset for approximately 15 seconds

Power Supply

power input	POE 48V
standby power	About 160mA@48V DC
Consumption	About 250mA@48V DC

Physical Characteristics

Housing	die-casting
Dimensions	195*175*55mm
Weight	About 1.08Kg
Mounting	Horizontal desktop placement, wall mounted installation, or rail mounted installation (wall mounted and rail mounted installation require additional purchase of installation accessories)

Environmental

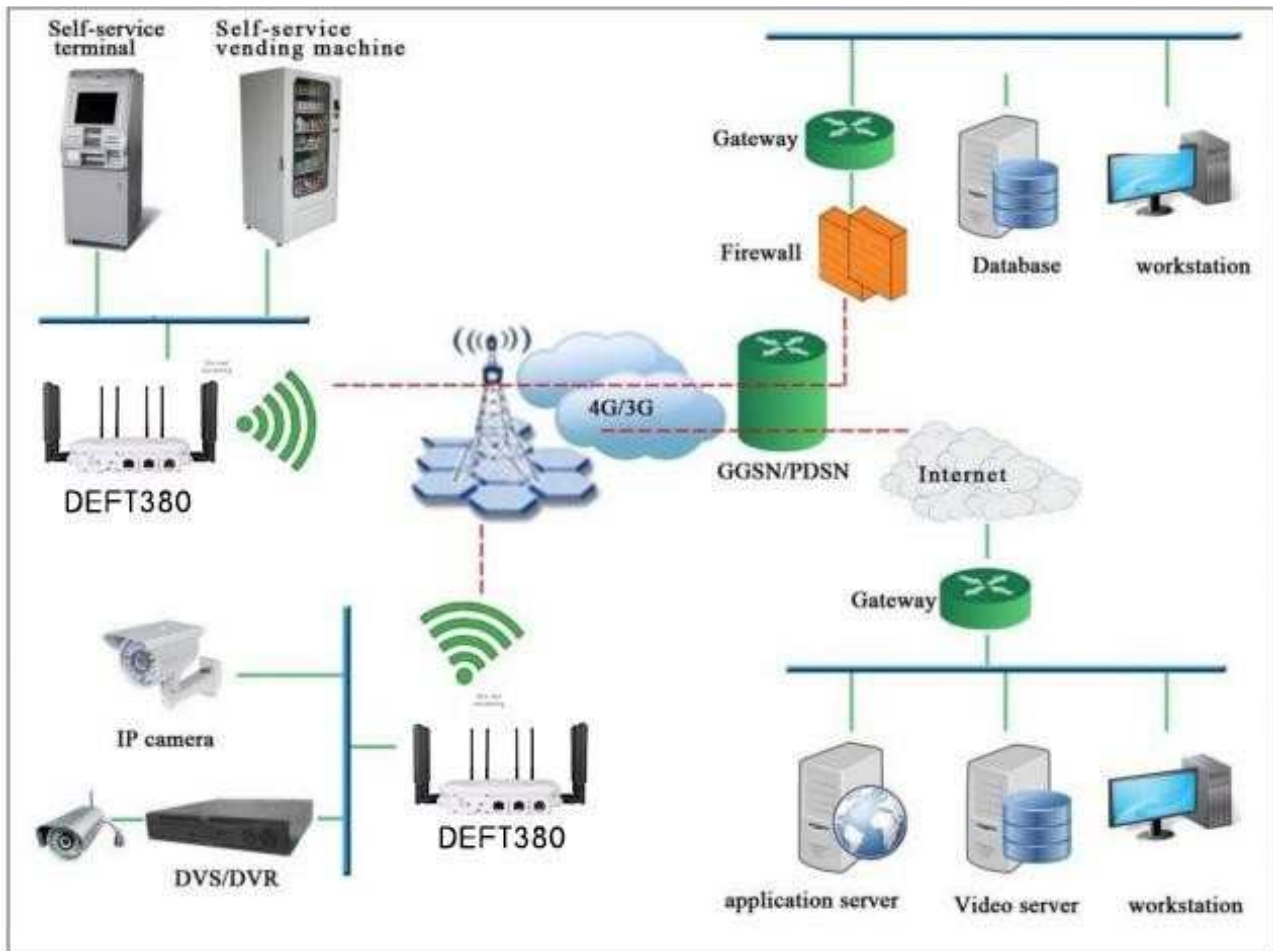
Operating Temperature	-40~+85 °C
Storage Temperature	-40~+75 °C
Relative Humidity	≤ 95% (without condensation)



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Network Diagram



5G industrial grade outdoor CPE

Wired/wireless dual backup

Automatic connection 5G when wired network is disconnected
Improve network availability



Supports dual band WiFi

2.4G+5.8G

Supports dual band WiFi, external high gain omnidirectional antenna, wireless signal 360 degrees without dead angles



Remote management of cloud platforms

No need for business trips, can open router management backend anytime and anywhere

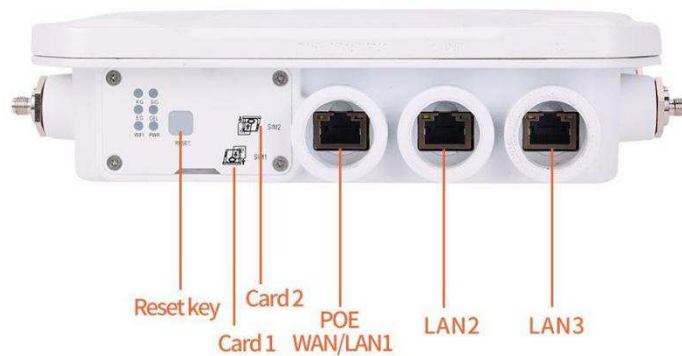
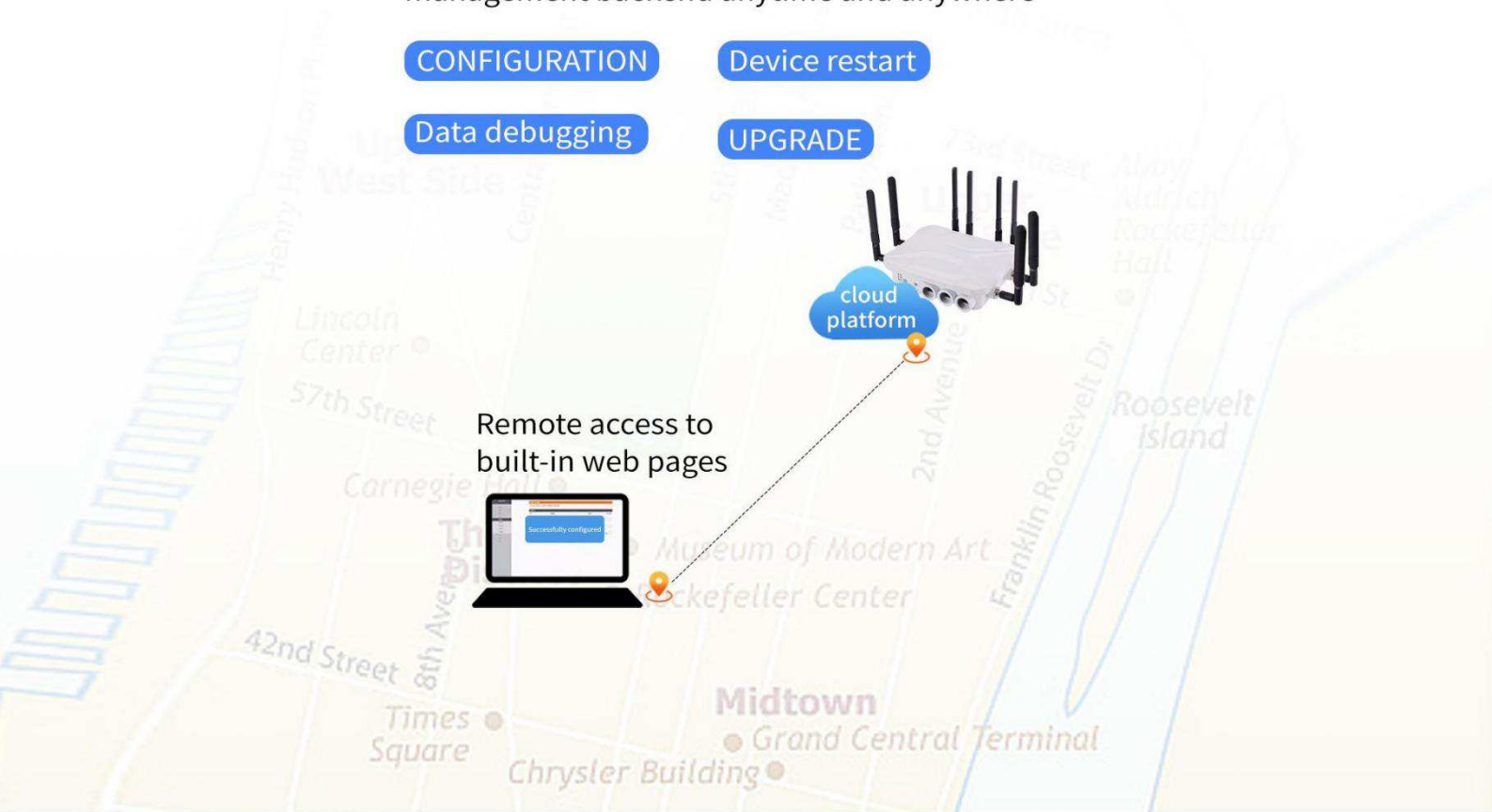
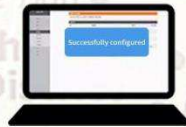
CONFIGURATION

Device restart

Data debugging

UPGRADE

Remote access to built-in web pages



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Series	Model	Fruquency Band	Applicable Countries	Specification
ZX FT380	ZXFT380 S (Wifi) ZXFO543 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	WiFi:IEEE802.11b/g/n Frequency 2.4G, 5.8G EthernetPort:RJ45,1x10/100Mbps WAN+1 Shared with WAN port, capable of POE power supply, 48V LAN+2 LAN port, 10/100/1000Mbps adaptive 2* Standard SIM card (large card) Sopport VPN ptotocol SupportDHCP,DDNS,firewall,N AT,DMZ Support strong WDT, self- recovery, schedule reboot function, keeping always online Antenna:5* 5G antenna Antenna(SMA),2* 2.4G WiFi Atenna 2*5.8GWiFi Atenna
	ZXFT380 E (Wifi) ZXFO543 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/Ko rea/Thailand/In dia	
	ZXFT380 N (Wifi) ZXFO543 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	
	ZXFT380 A (Wifi) ZXFO543 A (No Wifi)	FDD:B1/3/5/7/8/28 TDD:B40 WCDMA:B1/5/8 GSM:850/900/1800/1900	Australia/New Zealand/Taiwa n	
	ZXFT380 V (Wifi) ZXFO543 V (No Wifi)	FDD:B2/4/5/7/8/28 TDD:B40 WCDMA:B2/5/8 GSM:850/900/1800/1900	Latin America	
	ZXFT380 G (Wifi) ZXFO543 G (No Wifi)	LTE-TDD: B34/B38/B39/B40/B41 LTEFDD:B1/B2/B3/B4/B5/B7/B8/B 12/B13/B18/B19/B20/B25/B26/B28/ B66 UMTS/HSPA+ :B1/B2/B4/B5/B6/B8/B19 GSM/GPRS/EDGE:850/900/1800/19 00MHz	Globle	