Idustrial 4G Router
ZXFT453

Introduction

FT453 is a high specification industrial wireless router that supports 4G full network connectivity, 2.4G WiFi function, 10M/100M adaptive Ethernet interface, and 4G plug and play function. Industrial grade high standard design; Equipped with anti-interference and surge prevention capabilities, widely used in industrial control, data communication systems, and industrial automation fields.

Industrial-grade Design

▶ High performance industrial-grade wireless communication module

▶ Wired/4G wireless/WIFI Station three backup

▶ Made of sheet metal shell, with good heat dissipation

▶ Low power consumption and low heat generation

▶ Support Desktop or Wall mount installation Wide

▶ 5V~36V

Stabilitv&Reliabilitv

▶ VPN encrypted tunnel ensures secure and reliable transmission, eliminating network hazards.

▶ Embedded watchdog, device operation self inspection technology, network fault self repair

▶ Always keep online, reboot automatically if disconnected to ensure continual connection

Cloud platform remote management

▶ RS232,RS485 interface data transmission

▶ Real time monitoring

▶ Support parameter backup and import

▶ Equipment upgrade or reboot

▶ log query, parameter backup

Industrial 4G Router

- DDR3 120MB

- WAN protocol (optional) supports Static IP, DHCP, PPPoE

- 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, 3322, etc

High Performance

- 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.WiFi

Product Specification

cellular Parameter	
Wireless Module	Industrial-grade wireless communication module
network access	CAT-4 4G (FDD supports up to 150Mbps downlink, TDD supports up to 100Mbps downlink)/42Mbps HSPA+ Support for EDGE/GPRS, EVDO/CDMA (optional)
Theoretical Bandwidth	LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/B40/B41 WCDMA B1/B5/B8 GSM B3/B8
standby power	160mA@12V DC
Working power consumption	300mA@12V DC
WIFI Parameter	
Frequency	Support IEEE802.11b/g/n 2.4G
ip routing	Support Static Router、RIP、OSPF (Optional)
Network format	4G/3G
Backup function	Support WAN/Cellular backup
Hardware	
FLASH	16MB
DDR3	120MB

Industrial 4G Router

Interfaces

WAN	1*WAN10/100Mbps adaptive Ethernet port
LAN	4 * LAN/5 * LAN10/100Mbps adaptive Ethernet port
Serial Port	1 xRS232/RS485
Indicators	"SYS", " CEL1", "SIG1", "WIFI1" four indicating lamps, the
Antenna	1 * 4G antenna (usually only one 4G antenna is connected) 1 * WIFI antenna
SIM	2 * Standard large card slot, drawer type card holder
Power	Working power consumption 3.6W
Reset Button	Restore the router's parameter configuration to factory values

Power Supply

power input	5~36V
standby power	About 160mA@12V DC
Consumption	About 300mA@12V DC

Physical Characteristics

Housing	Sheet Metal
Dimensions	174*98*26mm
Weight	About 0.00Kg
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℃
Storage Temperature	-40~+70℃
Relative Humidity	≤ 95% (without condensation)

4G industrial router Wired wireless dual backup

Automatic connection 4G when wired network is disconnected Improve network availability

wired　　WiFi　　4 G

Wireless
WiFi internet access

4G wireless
transmission

VPN
private network

Wired and
wireless backup

Serial port transparent transmission function Secure transmission

Supports one RS232 serial port and one serial port
Meet the interaction between conventional data and
control instructions in industrial control scenarios
TCP/UDP/MQTT/MODBUS and other protocols

Network side

data transmission

Industrial Cellular Router

RS232/485

Remote management of cloud platforms

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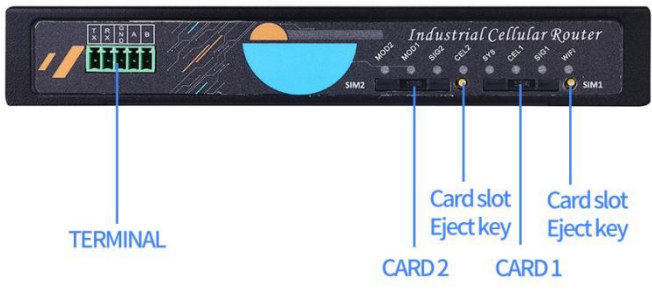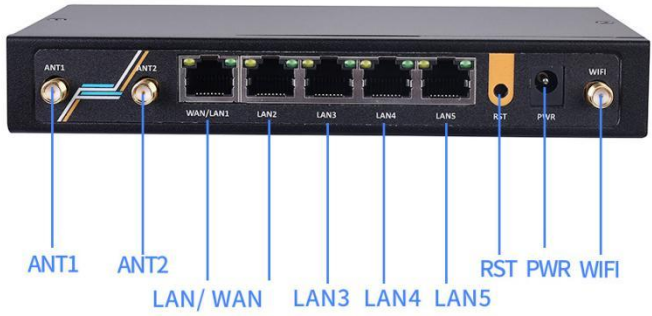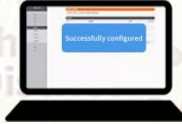No need for business trips, can open router management backend anytime and anywhere

CONFIGURATION

Device restart

Data debugging

UPGRADE

cloud platform

Remote access to built-in web pages

Successfully configured

ANT1

ANT2

WAN/LAN1 LAN2 LAN3 LAN4 LAN5 RST PWR WIFI

ANT1   ANT2   RST PWR WIFI

LAN/ WAN   LAN3 LAN4 LAN5

Industrial Cellular Router

T R G A B
X X N D

MOD2 MOD1 SIG2 CEL2 SYS CEL1 SIG1 WIFI

SIM2   SIM1

TERMINAL

Card slot Eject key

Card slot Eject key

CARD 2   CARD 1

Catalog

Series	Model	Fruquency Band	Applicable Countries	Specification
ZXFT453	ZXFT453S (Wifi) ZXF0543S (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 2.4Ghz EthernetPort:RJ45,1x10/100Mbps WAN+4x10/100Mbps LAN Serial Port:RS232+RS485(DTU) 2 Sim card Standard large card slot, drawer type card holder Sopport VPN ptotocol SupportDHCP,DDNS,firewall,NAT,DMZ Support strong WDT, self-recovery, schedule reboot function, keeping always online Antenna:1x4G antenna (Usually only one 4G antenna is connected) Antenna(SMA),1x WiFi Atenna
	ZXFT453E (Wifi) ZXF0543E (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	
	ZXFT453N (Wifi) ZXF0543N (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	
	ZXFT453A (Wifi) ZXF0543A (No Wifi)	FDD:B1/3/5/7/8/28 TDD:B40 WCDMA:B1/5/8 GSM:850/900/1800/1900	Australia/New Zealand/Taiwan	
	ZXFT453V (Wifi) ZXF0543V (No Wifi)	FDD:B2/4/5/7/8/28 TDD:B40 WCDMA:B2/5/8 GSM:850/900/1800/1900	Latin America	
	ZXFT453G (Wifi) ZXF0543G (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	