

Four-Faith Industrial Router

F-R200

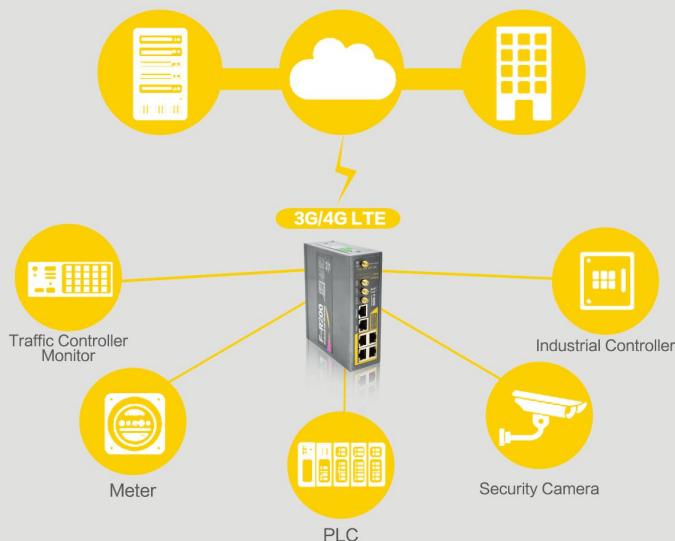
M2M 3G/4G Industrial Router

Overview

Four-Faith F-R200 is an intelligent cellular router designed for industrial applications requiring faultless connectivity. It provides a secure, reliable, real-time, remote connectivity for SCADA, distribution management systems, metering etc. Software-defined, multi-carrier networking, dual SIM models, 802.11n/802.11ac and global 2.5G/3G/HSPA+/LTE options make it easy to get connected. With DIN-rail mounting, wide operating temperature range, and IP30 metal housing, F-R200 is a convenient yet reliable solution for any industrial wireless applications.



Application Example



Benefits

- Advanced Failover: Maximizes uptime by seamlessly switching between the multiple Internet interfaces (cellular, WAN, WIFI, dual-SIM).
- Multiple Tunneling Schemes: Secure your data using a variety of VPN tunneling schemes, including IPSec, L2TP, PPTP, OpenVPN and GRE.
- Ethernet, serial and I/O for connecting diverse field assets.
- Flexible WIFI: 802.11b/g/n(2.4GHz) and 802.11ac(5GHz) dual-band WIFI, configurable WIFI as WAN or access point, WIFI Security (WEP / WPA / WPA2 Mixed Mode) and multiple SSID.
- Gigabit Ethernet ports.
- Four-Faith Remote Manager provides mass configuration, device management, OTA update, and troubleshooting tools.

Packing List



F-R200



Cellular Antenna



WIFI Antenna



Power



Terminal Block



Line

Specifications

CELLULAR WAN	<ul style="list-style-type: none"> Supported Frequency Bands <ul style="list-style-type: none"> -- LTE: B1, B2, B3, B4, B5, B7, B8, B20, B28 -- WCDMA: 2100(B1), 1900(B2), 850(B5) -- EV-DO/CDMA: 800(BC0) -- GSM/GPRS/EDGE: 850/900/1800/1900 Automatic SIM based network operator switching 	WIFI	<ul style="list-style-type: none"> IEEE802.11 ac, compatible IEEE 802.11 b/g/n. AP and client mode. Adjustable output power (Max: 26dBm) Access point for up to 30 clients Simultaneous access point/client mode WEP, WPA-PSK, WPA2-PSK etc. Security
HOST INTERFACES	<ul style="list-style-type: none"> 10/100/1000 Base-T RJ45 Ethernet port RS-232 or RS-485 Serial Console Port 3 SMA antenna connectors (WIFI and Double-cellular) Active GPS antenna support (option) (6) pin 3.5mm terminal block 	NETWORK AND ROUTING	<ul style="list-style-type: none"> Network Address Translation (NAT) Port Forwarding Host Port Routing VRRP Reliable Static Route Dynamic DNS
INPUT/OUTPUT	<ul style="list-style-type: none"> (6) pin 3.5mm terminal block. (2) DI, (1) DO, (1) Relay. Input ON Voltage: 5 to 30 VDC. Input OFF Voltage: 0 to 3 VDC. Output < 50mA @ 30VDC. Relay:1A 250VAC/30VDC 	VPN	<ul style="list-style-type: none"> IPSec, GRE, and OPENVPN Client Up to 10 concurrent tunnels Split Tunnel Dead Peer Detection (DPD) Multiple Subnets VPN Failover
LAN	<ul style="list-style-type: none"> DNS, DNS Proxy DHCP Server IP Passthrough (option) VLAN Host Interface Watchdog PPPoE 	SECURITY	<ul style="list-style-type: none"> Remote Authentication DMZ Inbound and Outbound Port filtering Inbound and Outbound Trusted IP MAC Address Filtering.
SERIAL	<ul style="list-style-type: none"> TCP/UDP PAD Mode Modbus (ASCII, DTU, Variable) PPP Reverse Telnet 	GPS (Option)	<ul style="list-style-type: none"> Antenna Interface: SMA Female, 50 ohms impedance Tracking Sensitivity: better than -144 dBm Horizontal position accuracy: 2.5 m Time-To-First-Fix: 29 s Protocol: NMEA-0183 V2.3
EVENTS ENGINE (Option)	<ul style="list-style-type: none"> Custom event triggers and reports. Configurable interface, no programming. Event Types: Digital Input, Network Parameters, Data Usage, Timer, Power, Device Temperature. Report Types: TCP, UDP, SMS, SNMP Trap, HTTP, JSON. Event Actions: Drive Relay Output. 	OPERATION ENVIRONMENT	<ul style="list-style-type: none"> Operating Temperature: -35°C to +75°C / -31°F to +167°F Storage Temperature: -40°C to 85°C / -40°F to 185°F Humidity: 90% RH @ 60°C



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Specifications

MANAGEMENT SERVICE	<ul style="list-style-type: none">Secure cloud-based device management applicationRemote provisioningGateway configuration and template managementConfigurable monitoring and alertingSoftware and radio module firmware updatesAuto configuration	MANAGEMENT INTERFACES	<ul style="list-style-type: none">Web-Based User InterfaceDevice Configuration TemplatesSoftware and radio module firmware updatesAT Command Line Interface (Telnet/SSH/Serial)SMS Commands (Option)SNMP
DIMENSIONS	<ul style="list-style-type: none">Housing & Weight: Metal, 520gDimension: (L x W x H): 133 x 115.7 x 45 mmInstallation: 34.6 mm Din-Rail or wall mounting or desktop		

Selection and Ordering Data

Model No.	Description
F-R200-W	Cellular (WCDMA/HSDPA/HSUPA/HSPA+), WIFI, SIM*1(Expandable to 2), I/O(2*DI, 1*DO, 1*Relay.) , GPS(Option)
F-R200-FL	Cellular (LTE/WCDMA), WIFI, SIM*1(Expandable to 2), I/O(2*DI, 1*DO, 1*Relay.) , GPS(Option)
F-R200-L	Cellular (LTE), WIFI, SIM*1(Expandable to 2), I/O(2*DI, 1*DO, 1*Relay.) , GPS(Option)
F-R200-W/W	Cellular (WCDMA/HSDPA/HSUPA/HSPA+, Dual-Module), WIFI, SIM*2, I/O(2*DI, 1*DO, 1*Relay.) , GPS(Option)
F-R200-FL/FL	Cellular (LTE/WCDMA, Dual-Module), WIFI, SIM*2, I/O(2*DI, 1*DO, 1*Relay.) , GPS(Option)
F-R200-L/L	Cellular (LTE, Dual-Module), WIFI, SIM*2, I/O(2*DI, 1*DO, 1*Relay.) , GPS(Option)



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