Four-Faith
四信

# Four-Faith Industrial Router

# F-R200

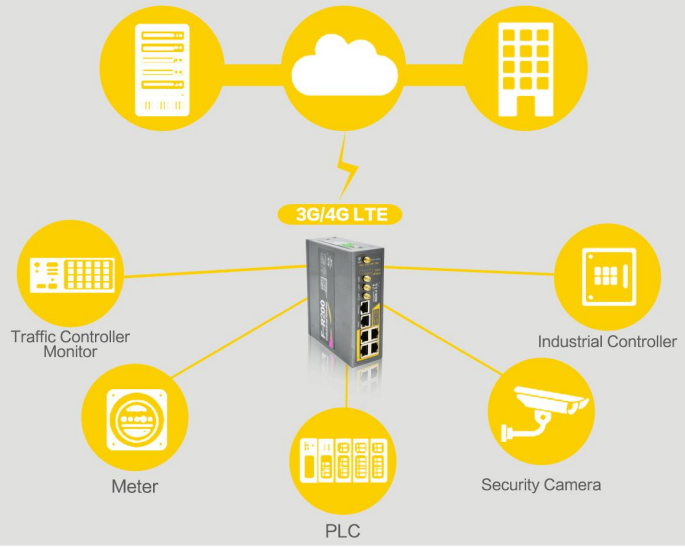
M2M 3G/4G Industrial Router



## 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.



香港四信科技有限公司
HongKong Four-Faith Technology Co. Ltd.
Email: stefan@four-faith.com Tel: +86-592-5907276/5907277 Web: en.four-faith.com
Add: 11th Floor, A-06, No.370, Chengyi Street, Jimei District , Xiamen, 361021, Fujian, China

# Packing List


F-R200


Cellular Antenna


WIFI Antenna


Power


Terminal Block


Line

# Specifications

| | |
|---|---|
| **CELLULAR WAN** | • Supported Frequency Bands<br>-- LTE: B1, B2, B3, B4, B5, B7, B8, B20, B28<br>-- WCDMA: 2100(B1), 1900(B2), 850(B5)<br>-- EV-DO/CDMA: 800(BC0)<br>-- GSM/GPRS/EDGE: 850/900/1800/1900<br>• Automatic SIM based network operator switching |
| **HOST INTERFACES** | • 10/100/1000 Base-T RJ45 Ethernet port<br>• RS-232 or RS-485 Serial Console Port<br>• 3 SMA antenna connectors (WIFI and Double-cellular)<br>• Active GPS antenna support (option)<br>• (6) pin 3.5mm terminal block |
| **INPUT/OUTPUT** | • (6) pin 3.5mm terminal block.<br>• (2) DI, (1) DO, (1) Relay.<br>• Input ON Voltage: 5 to 30 VDC.<br>• Input OFF Voltage: 0 to 3 VDC.<br>• Output < 50mA @ 30VDC.<br>• Relay:1A 250VAC/30VDC |
| **LAN** | • DNS, DNS Proxy<br>• DHCP Server<br>• IP Passthrough (option)<br>• VLAN<br>• Host Interface Watchdog<br>• PPPoE |
| **SERIAL** | • TCP/UDP PAD Mode<br>• Modbus (ASCII, DTU, Variable)<br>• PPP<br>• Reverse Telnet |
| **EVENTS ENGINE (Option)** | • Custom event triggers and reports.<br>• Configurable interface, no programming.<br>• Event Types: Digital Input, Network Parameters, Data Usage, Timer, Power, Device Temperature.<br>• Report Types: TCP, UDP, SMS, SNMP Trap, HTTP, JSON.<br>• Event Actions: Drive Relay Output. |

| | |
|---|---|
| **WIFI** | • IEEE802.11 ac, compatible IEEE 802.11 b/g/n.<br>• AP and client mode.<br>• Adjustable output power (Max: 26dBm)<br>• Access point for up to 30 clients<br>• Simultaneous access point/client mode<br>• WEP, WPA-PSK, WPA2-PSK etc. Security |
| **NETWORK AND ROUTING** | • Network Address Translation (NAT)<br>• Port Forwarding<br>• Host Port Routing<br>• VRRP<br>• Reliable Static Route<br>• Dynamic DNS |
| **VPN** | • IPSec, GRE, and OPENVPN Client<br>• Up to 10 concurrent tunnels<br>• Split Tunnel<br>• Dead Peer Detection (DPD)<br>• Multiple Subnets<br>• VPN Failover |
| **SECURITY** | • Remote Authentication<br>• DMZ<br>• Inbound and Outbound Port filtering<br>• Inbound and Outbound Trusted IP<br>• MAC Address Filtering. |
| **GPS (Option)** | • Antenna Interface: SMA Female, 50 ohms impedance<br>• Tracking Sensitivity: better than -144 dBm<br>• Horizontal position accuracy: 2.5 m<br>• Time-To-First-Fix: 29 s<br>• Protocol: NMEA-0183 V2.3 |
| **OPERATION ENVIRONMENT** | • Operating Temperature: -35°C to +75°C / -31°F to +167°F<br>• Storage Temperature: -40°C to 85°C / -40°F to 185°F<br>• Humidity: 90% RH @ 60°C |



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## Specifications

| | |
|---|---|
| **MANAGEMENT SERVICE** | • Secure cloud-based device management application<br>• Remote provisioning<br>• Gateway configuration and template management<br>• Configurable monitoring and alerting<br>• Software and radio module firmware updates<br>• Auto configuration |
| **DIMENSIONS** | • Housing & Weight: Metal, 520g<br>• Dimension: (L x W x H): 133 x 115.7 x 45 mm<br>• Installation: 34.6 mm Din-Rail or wall mounting or desktop |

| | |
|---|---|
| **MANAGEMENT INTERFACES** | • Web-Based User Interface<br>• Device Configuration Templates<br>• Software and radio module firmware updates<br>• AT Command Line Interface (Telnet/SSH/Serial)<br>• SMS Commands (Option)<br>• SNMP |

## 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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