

Four-Faith Industrial Router

F-R100

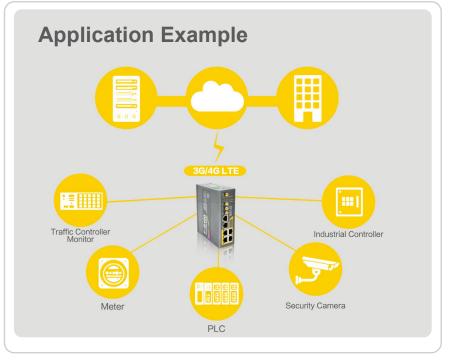
M2M 3G/4G Industrial Router

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Overview

Four-Faith F-R100 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 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, the F-R100 is a convenient yet reliable solution for any industrial wireless applications.



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.
- Flexible WIFI: 802.11 b/g/n, configurable WIFI as WAN or access point, WIFI Security (WEP / WPA / WPA2 Mixed Mode) and multiple SSID.
- Ethernet, serial and I/O for connecting diverse field assets.
- Four-Faith Remote Management provides mass configuration, device management, OTA update, and troubleshooting tools.



Packing List













F-R100

Cellular Antenna

WIFI Antenna

Power

Terminal Block

Line

Specifications

CELLIILAR WAN

- Supported Frequency Bands
- -- 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

HOST

NITEDEL CEC

- 10/100 Base-T RJ45 Ethernet port
- RS-232 or RS-485 Serial Console Port
- 3 SMA antenna connectors (WI-FI and

Double-cellular)

- Active GPS antenna support (option)
- (6) pin 3.5mm terminal block

INPUT/OUTPUT

- (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

LAN

- DNS, DNS Proxy
- DHCP Server
- IP Passthrough (option)
- VLAN
- Host Interface Watchdog
- PPPoE

SERIAL.

- TCP/UDP PAD Mode
- Modbus (ASCII, DTU, Variable)
- PPP
- Reverse Telnet

EVENTS ENGINE

- 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.

WIFI

- IEEE802.11 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

NETWORK AND ROUTING

- Network Address Translation (NAT)
- Port Forwarding
- Host Port Routing
- VRRP
- Reliable Static Route
- Dynamic DNS

VPN

- IPSec, GRE, and OPENVPN Client
- Up to 10 concurrent tunnels
- Split Tunnel
- Dead Peer Detection (DPD)
- Multiple Subnets
- VPN Failover

SECURITY

- Remote Authentication
- DMZ
- Inbound and Outbound Port filtering
- Inbound and Outbound Trusted IP
- MAC Address Filtering.

GPS (Option)

- 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

+167°F

• Protocol: NMEA-0183 V2.3

OPERATION ENVIRONMENT

- \bullet Operating Temperature: -35°C to +75°C / -31°F to
- \bullet Storage Temperature: -40°C to 85°C / -40°F to
- Humidity: 90% RH @ 60°C

Specifications

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

MANAGEMENT

- Web-Based User Interface
- Device Configuration Templates
- Software and radio module firmware updates
- AT Command Line Interface (Telnet/SSH/Serial)
- SMS Commands (Option)
- SNMP

Selection and Ordering Data

or desktop

| Model No. | Description |
|--------------|--|
| F-R100-W | Cellular (WCDMA/HSDPA/HSUPA/HSPA+), WIFI, SIM*1(Expandable to 2), I/O(2*DI, 1*DO, 1*Relay.), GPS(Option) |
| F-R100-FL | Cellular (LTE/WCDMA), WIFI, SIM*1(Expandable to 2), I/O(2*DI, 1*DO, 1*Relay.), GPS(Option) |
| F-R100-L | Cellular (LTE), WIFI, SIM*1(Expandable to 2), I/O(2*DI, 1*DO, 1*Relay.), GPS(Option) |
| F-R100-W/W | Cellular (WCDMA/HSDPA/HSUPA/HSPA+, Dual-Module), WIFI, SIM*2, I/O(2*DI, 1*DO, 1*Relay.), GPS(Option) |
| F-R100-FL/FL | Cellular (LTE/WCDMA, Dual-Module), WIFI, SIM*2, I/O(2*DI, 1*DO, 1*Relay.), GPS(Option) |
| F-R100-L/L | Cellular (LTE, Dual-Module), WIFI, SIM*2, I/O(2*DI, 1*DO, 1*Relay.), GPS(Option) |

