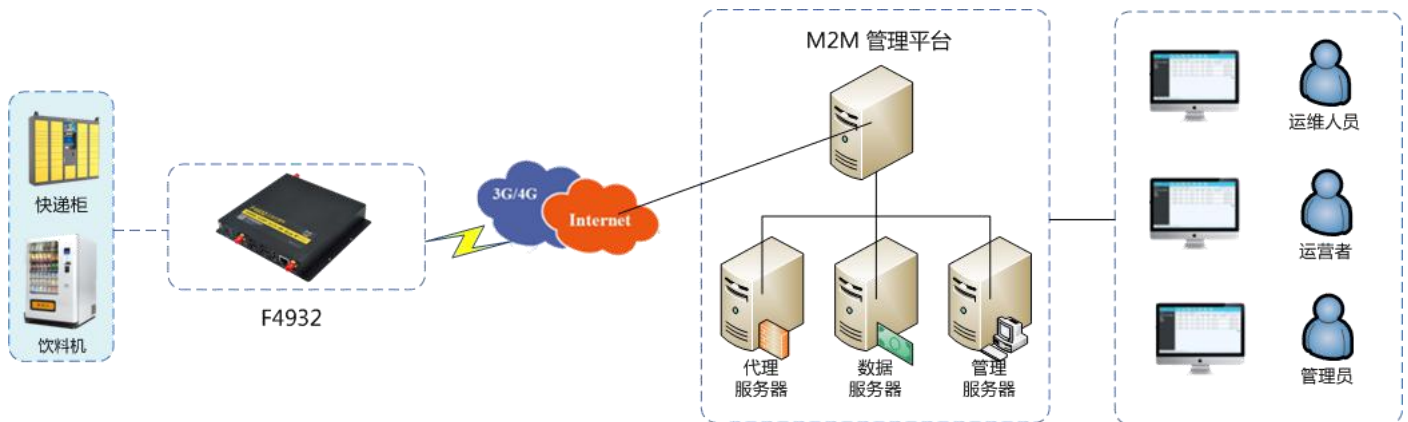# F4932-R1Q

Industrial computer
Specifications

The F4932-R1Q is a low-power industrial computer independently developed by Four Faith. It combines wireless cellular network and routing technology with industrial computer technology. The system uses Quad-core ARM Cortex-A17 RK3288 processor with a frequency of 1.8GHz. Provide high-speed computing support for customer task programs.Support OpenGLES2.0 and OpenVGTM1.1 hardware accelerators, full HD 1080P video code engine, providing a smooth and powerful video experience for multimedia playback. F4932 includes 4 USB, 3 RS232/RS485, HDMI, network, audio and other modal interfaces, which can be connected to scan code gun, printer, camera, keyboard, mouse, infrared screen, LCD screen, etc., No longer bothered by fewer interfaces. Built-in Android operating system and provide relevant API and development documentation, making it easier and more convenient for customers to use and develop applications.

Application topology

Features

Application Design
• Using high performance devices
• Quad Core Cortex-A17 RK3288 processor
• Professional power supply design, with protection against undervoltage, overvoltage, overcurrent, reverse connection, short circuit, surge, etc.
• Wide power input (DC 5 ~ 36V)
• Wide temperature design (-35 ° C ~ 75 ° C)
• 4-core S-terminal power connector, fastening does not fall off
• With metal casing, good heat dissipation and impact resistance
• The whole machine has no fan design
• TF and SIM card adopt anti-theft structure design
• Built-in Android (standard), Linux (optional) operating system

Stable and reliable
• WDT watchdog design to ensure system stability
• Adopt a complete anti-drop mechanism to ensure that the terminal is always online
• Solid state hard disk storage (optional) to ensure high-speed data read and write and security
• Ethernet interface built-in 1.5KV electromagnetic isolation protection
• RS232 interface built-in 15KV ESD protection
• SIM/UIM card interface with built-in 15KV ESD protection
• Antenna interface lightning protection (optional)

标准易用

Add：厦门市集美区软件园三期诚毅大街 370 号 A06 栋 11 层

http：//www.four-faith.com   客服热线：400-8838-199   Tel：0592-6300320   Fax：0592-5912735

- Power on to enter working status

- Support 10/100/1000Mbps Ethernet

- Provide multiple standard USB2.0 interfaces

- Provide multiple RS232/RS485 DB9 interfaces

- Provide audio input and output interface

Powerful

- Support 1080P video codec and 3D acceleration

- Local storage supports SSD solid state drive (optional), TF card (optional)

- Open Android environment, you can develop and install applications by yourself

- Support HDMI, LVDS (optional) external touch screen and other display devices

- Support 802.11 b/g/n WIFI network and provide multiple encryption methods

- Provide rich external interfaces to meet customer application needs

- Support 3G/4G dial-up Internet access

- Support APN/VPDN private network dialing

- Support intelligent online maintenance, offline reconnection, abnormal recovery

- Support VPN functions such as PPTP, L2TP, IPSEC, GRE, and OPEN VPN

- Provide PWR, NET, WIFI and other indicators, which is more convenient to use and maintain.

- Support NTP, built-in RTC, support timed restart, time switch function

- Support device management platform for remote status monitoring, configuration, update, etc.

- Support multiple LAN/WAN connection modes, including static IP, DHCP, 3G/4G, etc.

- Support 3G/4G network and wired LAN/WAN dual link intelligent switching backup function (optional)

Product specifications

Wireless parameter

Project	Content
Module	Industrial grade wireless module
Standard	TDD-LTE/FDD-LTE/EVDO/WCDMA/TD-SCDMA/CDMA1X/GPRS/EDGE
Theoretical bandwidth	FDD LTE(DL 100Mbps，UL 50Mbps) TDD LTE(DL 61Mbps，UL 18Mbps) CDMA2000 1X EVDO Rev A (DL 3.1Mbps，UL 1.8Mbps) WCDMA(DL 42Mbps，UL 5.76Mbps)
TX	<24dBm
RX	<-109dBm

WIFI

Project	Content
Standard	IEEE802.11b/g/n，2.4G
Speed	IEEE802.11b：11Mbps IEEE802.11g：54Mbps IEEE802.11n：150Mbps
Security	WEP、WPA、WPA2
TX	15dBm
RX	<-70dBm@54Mpbs

Hardware

Project	Content
CPU	Quad Core Cortex-A17 RK3288
FLASH	8GB eMMC
DDR3	2GB
SSD	128GB（optional）
TF 卡	32GB（optional）

Interface

Project	Content
Ethernet	1 RJ45（10/100/1000Mbps），MDI/MDIX，Built-in 1.5KV electromagnetic isolation protection
Serial	3 RS232/RS485 Built-in 1.5KV electromagnetic isolation protection： Databit：8（5、6、7 optional） Stopbit：1、2

	Calibration: no parity, even parity, odd parity
	Speed：2400～115200bits/s
Led	"PWR" 、 "NET" 、 "WIFI"
SIM/UIM	Standard drawer user card interface, support 1.8V/3V SIM/UIM card, built-in 15KV ESD protection
USB	4 USB2.0， 1 USB2.0 OTG
TF card	Standard bullet TF card interface, support for various TF cards
Audio	1 Speak， 1 Mic
Video	HDMI：1920x1080， 1366x768， 1280x720， 1024x768
	LVDS：1920x1080， 1366x768， 1280x720， 1024x768
Antenna	Honeycomb: 2 standard SMA female antenna interfaces, characteristic impedance 50 ohms
	WIFI: 1 standard SMA male antenna interface, characteristic impedance 50 ohms
Power	Standard 4-pin S-terminal connector prevents looseness

System

Project	Content
Standard	DC 12V/1.5A
Range	DC 5～36V

Physical characteristics

Project	Content
Shell	Metal case, shockproof design
Dimensions	170mm × 150mm × 27mm
Weight	0.7Kg

Other

Project	Content
Temperature	-35～+75ºC

Storage temperature	-40～+85ºC
Relative humidity	95%(No condensation)