

Industrial Computer

F4932-R2H



Introduction

F4932-R2H 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 RK3399 processor (Dual-Cortex A72+Dual-Cortex A53) with a frequency of 2.0GHz. Provide high-speed computing support for customer task programs. 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.



Industrial-grade Design

- ▶ Use high-performance components
- ▶ Wide power input (DC 9 ~ 24V)
- ▶ TF card and SIM card adopt anti-theft structure design
- ▶ Built-in Android 7.1 (standard) operating system
- ▶ Adopt 4-core S-terminal power interface. fasten and not fall off



Stability & Reliability

- ▶ WDT Watchdog design to ensure system stability
- ▶ Adopt a complete anti-drop mechanism
- ▶ Ethernet interface built-in 1.5KV electromagnetic isolation protection
- ▶ RS232/RS485 interface built-in 15KV ESD protection
- ▶ Built-in 15KV ESD protection for SIM/UIIM card interface
- ▶ Antenna interface lightning protection (optional)



Standard & Convenience

- ▶ Power on to enter working status
- ▶ Support 10/100/1000Mbps Ethernet
- ▶ Provide one standard USB 3.0 and three USB 2.0 interfaces
- ▶ Provide multiple RS232 or RS485 DB9 interfaces
- ▶ Provide audio input and output interface

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- ▶ Support 1080P video codec and 3D acceleration
- ▶ Local storage supports 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/5G dial-up Internet
- ▶ Support APN/VPDN private network dial-up
- ▶ Support NTP, built-in RTC
- ▶ Support timing restart, timing switch machine function
- ▶ Support multi LAN/WAN connection methods

Product Specification

Cellular Specification	
Items	Contents
Module	Industrial grade wireless module
Standard	5G NR: n1/n2/n3/n5/n7/n8/n20/n28/n41/n66/n71/n77/n78/n79 LTE: B1/B2/B3/B4(66)/B5(18/19/26)/B7/B8/B12(17)/B13/B14/B20/B25/B26/B28/B29/B30/B38/B39/B40/B41/B42/B43/ B46/ B48/B71
Theoretical Bandwidth	5G NR (DL 3.4Gbps, UL 350Mbps) LTE Cat20 (DL 2.0Gbps, UL 150Mbps) HSPA+ (DL 42Mbps, UL 5.76Mbps)
TX	<23dBm
RX	<-97dBm
WIFI Specification	
Items	Contents
Standard	IEEE802.11b/g/n, 2.4G
Bandwidth	IEEE802.11b: 11Mbps
	IEEE802.11g: 54Mbps
	IEEE802.11n: 150Mbps
Encryption	WEP, WPA, WPA2
Power	15 dBm (Maximum)
Sensitive	<-70dBm @ 54Mbps

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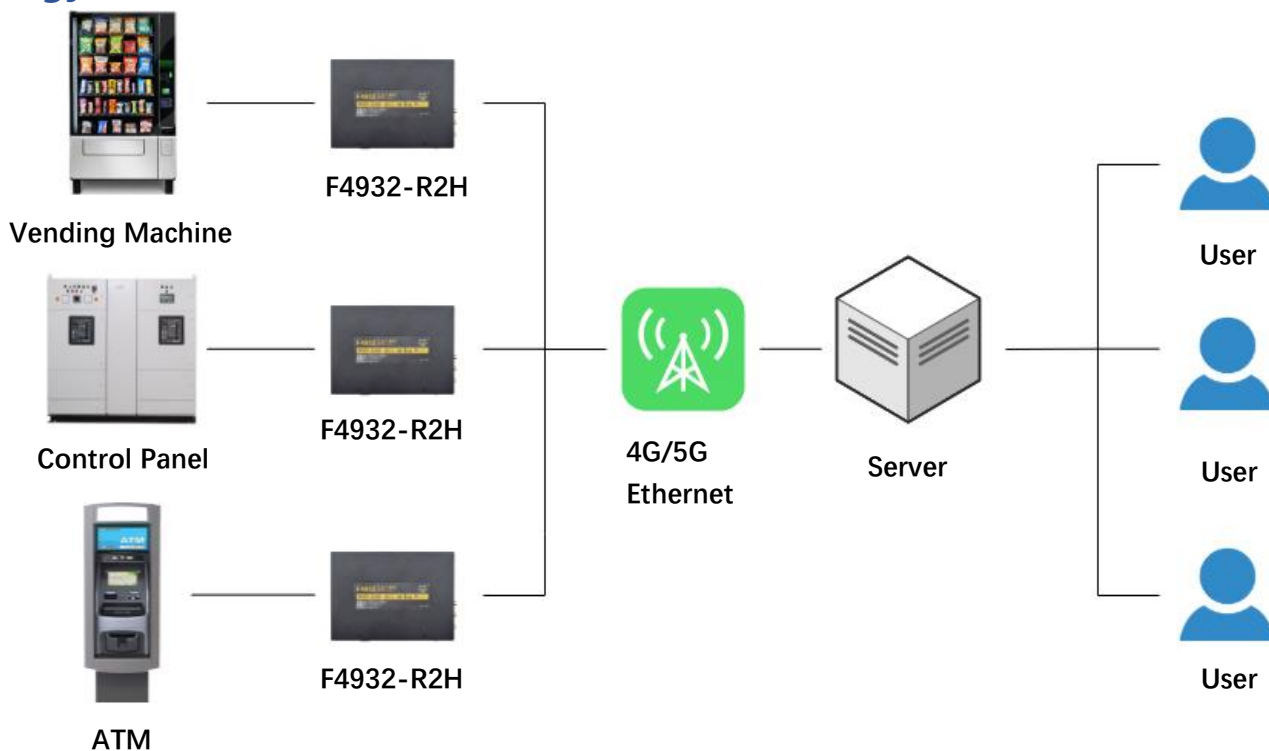


Hardware System	
Items	Contents
CPU	Rockchip RK3399
FLASH	16GB eMMC
DDR3	2GB
TF Card	32GB (optional)
Interfaces	
Items	Contents
Ethernet	1 x RJ45 (10/100/1000Mbps) , MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection
Serial	3 x RS232, 1 x RS485, 15KV ESD protection, DB9 terminal
Indicator	"PWR", "SYS", "Online"
SIM/UIM	Standard drawer user card interface, support 1.8V/3V SIM/UIM card, built-in 15KV ESD protection
USB	3 x USB 2.0, 1 x USB 2.0 OTG, 1 x USB 3.0
TF card	Standard bullet TF card interface, support for various TF cards
Audio	3.5mm headphone interface, dual 8 Ohm 5W interfaces
Display	HDMI: 1920x1080, 1366x768, 1280x720, 1024x768 LVDS: 1920x1080, 1366x768, 1280x720, 1024x768(optional)
Power	Standard 4-pin S-terminal interface
Power Supply	
Items	Contents
Standard	DC 12V/1.5A
Range	DC 9 ~ 24V
Physical Properties	
Items	Contents
Shell	Metal shell, shockproof design
Size	170mm × 150mm × 27mm (Without antenna and mounting parts)
Weight	0.7Kg (Without antenna and mounting parts)
Others	
Items	Contents
Working Temp	-20 ~ +60°C
Storage Temp	-40 ~ +85°C
Humidity	95% (No condensation)

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Topology



Dimension



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Order Information

Models	Network	3G/4G/5G Module	SIM/UIM
F4932-R2H-5G	4G/5G	1	1