

Industrial Computer

F4932-R2H-DF1



Introduction

F4932-R2H-DF1 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. The F4932-R2H-DF1 contains one USB3.0, five USB2.0, two RS232, one RS232/RS485, and two HDMI, network, and audio 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.



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



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/UIM card interface
- ▶ Antenna interface lightning protection (optional)



Standard & Convenience

- ▶ Power on to enter working status
- ▶ Support 10/100/1000Mbps(Optional)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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High Performance

- ▶ 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 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	TDD-LTE / FDD-LTE
Theoretical Bandwidth	FDD-LTE (DL 100Mbps, UL 50Mbps) TDD-LTE (DL 61Mbps, UL 18Mbps)
TX	<24dBm
RX	<-109dBm

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	32GB eMMC
DDR3	4GB
TF Card	32GB (Optional)
Bluetooth	BT4.0 (Optional)
Interfaces	
Items	Contents
Ethernet	1 x RJ45 [10/100Mbps, 1000Mbps(Optional)] , 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", "NET", "WIFI"
SIM/UIM	Standard drawer user card interface, support 1.8V/3V SIM/UIM card, built-in 15KV ESD protection
USB	5 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
Display	HDMI: 1920x1080, 1366x768, 1280x720, 1024x768 and,etc
HDMI	2
Power	Standard DC5525



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Power Supply	
Items	Contents
Standard	DC 12V/1.5A
Range	DC 9 ~ 24V
Physical Properties	
Items	Contents
Shell	Metal shell, shockproof design
Size	182mm × 148mm × 27mm (Without antenna and mounting parts)
Weight	0.7Kg (Without antenna and mounting parts)
Others	
Items	Contents
Working Temp	-20 ~ +60°C
Storage Temp	-30 ~ +70°C
Humidity	95% (No condensation)