

Industrial Computer

F4932-R2H-YK



Introduction

F4932-R2H-YK is an industrial computer developed by Four-Faith that supports 5G technology. It combines wireless cellular network and routing technology with industrial computing capabilities. The system is powered by an RK3399 processor (dual Cortex-A72 big cores + four Cortex-A53 small cores) with a clock speed of 1.8GHz, providing high-speed computing support for customer task programs. It supports OpenGL ES 2.0 and OpenVG™ 1.1 hardware accelerators, as well as a Full HD 1080P video codec engine, delivering a smooth and powerful multimedia experience.



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) /Debian 9 operating system
- ▶ Use Rockchip RK3399 processor



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



Standard & Convenience

- ▶ Power on to enter working status
- ▶ Support 10/100/1000Mbps Ethernet
- ▶ Provide 1 x standard USB 3.0 and 3 x USB 2.0 interfaces
- ▶ Provide 2 x serial interfaces
- ▶ Provide audio input and output interface

Industrial Computer F4932-R2H-YK



High Performance

- ▶ Support 1080P video codec and 3D acceleration
- ▶ Local storage supports TF card (Optional)
- ▶ Open Android environment, can develop and install applications by yourself
- ▶ Support HDMI 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 GPS (Optional)
- ▶ Support NTP, built-in RTC
- ▶ Support 5G LAN
- ▶ Support multi LAN/WAN connection methods

Product Specification

Cellular Specification

Items	Contents
Module	Industrial grade wireless module
Standard	5G NR, LTE TDD, LTE FDD
Theoretical Bandwidth	5G NR (DL 240Mbps, UL 60Mbps) LTE FDD (DL 100Mbps, UL 50Mbps) LTE TDD (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

Hardware System

Items	Contents
CPU	Rockchip RK3399
FLASH	16GB eMMC
DDR3	2GB
TF Card	32GB (optional)

Industrial Computer F4932-R2H-YK



Interfaces	
Items	Contents
Ethernet	2 x RJ45 (10/100Mbps) , MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection
Serial	1 x RS232, 1 x RS232/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)
GPS	Optional
Power	Standard DC5525 interface
Power Supply	
Items	Contents
Standard	DC 12V/1.5A
Range	DC 9 ~ 24V
Physical Properties	
Items	Contents
Shell	Metal shell, shockproof design
Size	155mm × 119mm × 34mm (Without antenna and mounting parts)
Weight	0.7Kg (Without antenna and mounting parts)
Others	
Items	Contents
Working Temperature	-20 ~ +60°C
Storage Temperature	-30 ~ +70°C
Humidity	95% (No condensation)

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Topology

