

Four-Faith

Industrial Computer

F4932-R2H-YK

GPS 4G USB RS232 RS485 WIFI

Introduction

F4932-R2H-YK is an industrial computer developed by Four-Faith that supports 4G 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. Lt supports OpenGLES2.0 and OpenVGrm1.1 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/UIM 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

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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 dial-up Internet
- Support GPS (Optional)
- Support NTP, built-in RTC
- Support multi LAN/WAN connection methods

Product Specification

Cellular Specification	
Items	**Contents**
Module	Industrial grade wireless module
Standard	LTE TDD, LTE FDD
Theoretical Bandwidth	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）

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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 ~ +60ºC
Storage Temperature	-30 ~ +70ºC
Humility	95% (No condensation)

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Topology

