

Industrial Computer

F4934-A-10.1CM



Introduction

F4934-A-10.1CM is an all-in-one screen is a low-power industrial computer independently developed by the Four-Faith company. Combining the wireless cellular network, routing technology, and industrial computer technology, liquid crystal display together on one industrial computer device. Using Quad-core ARM Cortex-A17 RK3288 processor, supports High-speed computing, can provide a smooth and powerful video experience. Contains 4 USB, 3 RS232, and 1 RS232/RS485, network, audio, and other interfaces, which can be connected to the scanner gun, printer, camera, keyboard, mouse, and other devices. Built-in Android operating system and provide relevant API and development documents.



Industrial-grade Design

- ▶ Use high-performance components
- ▶ Wide power input (DC 9 ~ 24V)
- ▶ 10.1-inch MIPI screen, 800*1280 HD resolution
- ▶ Built-in Android 5.1 (standard), Android 7.1(optional) operating system
- ▶ Wide operating temperature (0 ~ 50 °C)



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 4 standard USB 2.0 interfaces
- ▶ Provide multiple RS232 or RS485 interfaces
- ▶ Provide dual channels 8-ohm 5W power amplifier interface

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High Performance

- ▶ Open Android environment can develop and install your own applications.
- ▶ Local storage supports TF card (optional)
- ▶ Open Android environment, can develop and install applications by yourself
- ▶ Support PPTP, L2TP, IPSEC, GRE, OPEN VPN and other VPN features
- ▶ 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 (Can choose single module, dual module and non-module)
Standard	Support TDD-LTE/FDD-LTE single-module, multi-module or full network communication
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 RK3288
FLASH	8GB eMMC
DDR3	2GB
TF Card	32GB (Optional)
Display Size	10.1 inch
Resolution	800x 1280
Touch Screen	Capacitive touch screen
Visibility Angel	85/85/80/80 (L/R/U/D) wide angle
Color	16.7M (6bit)
Response Time	5 ms
Luminance	400 cd m2
Surface Hardness	≥ 6H
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, using standard 2.54mm terminal, speed rate: 2400-115200bits/s
Indicator	“PWR”, “SYS”, “Online”
SIM/UIM	Standard drawer user card interface, support 1.8V/3V SIM/UIM card, built-in 15KV ESD protection
USB	4 x USB 2.0, 1 x USB 2.0 OTG
TF card	Standard bullet TF card interface, support for various TF cards
Audio	1 speaker interface, 1 mic interfaces
Amplifier	Dual channels 8-ohm 5W amplifier
GPIO	4 x GPIO
Display	HDMI: 1920x1080, 1366x768, 1280x720, 1024x768
Antenna	Cellular: two standard SMA antenna connectors, characteristic impedance 50 Ohms WIFI: 1 standard SMA antenna interface, characteristic impedance 50 Ohms
Power	Standard DC terminal
Power Supply	
Items	Contents
Standard Range	DC 12V/1.5A DC 9 ~ 24V

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Physical Properties	
Items	Contents
Shell	Metal shell, shockproof design
Size	170mm × 150mm × 27mm (Without antenna and mounting parts)
Others	
Items	Contents
Working Temp	0 ~ +50°C
Storage Temp	-10 ~ +60°C
Humidity	95% (No condensation)

Topology

