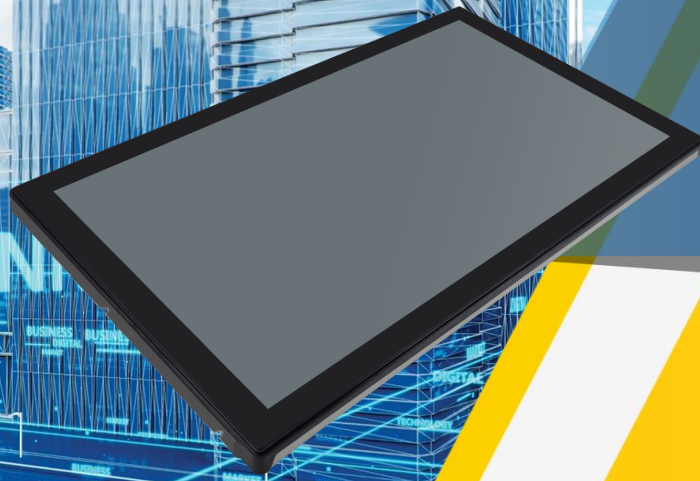


Industrial Computer

F4934-A-17.3IE



Introduction

F4934-A-17.3IE 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)
- ▶ 17.3-inch MIPI screen, 1920*1080 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 DB9 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 | 17.3 inch |
| Resolution | 1920 x 1080 127PPI |
| Touch Screen | Capacitive touch screen |
| Visibility Angel | 85/85/85/85 (L/R/U/D) CR≥10 |
| Color | 262K (6bit) |
| Response Time | 30 ms |
| Luminance | 250 cd m2 |
| Protection Grade (Front) | IP64 |
| Protection Grade (Back) | IP30 |
| Surface Hardness | ≥ 7H |
| 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 DB9 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 |
| 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 | DC terminal |
| Power Supply | |
| Items | Contents |
| Standard | DC 12V/5A |
| Power Range | DC 9~24V |

Industrial Computer F4934-A-17.3IE



| Physical Properties | |
|---------------------|--|
| Items | Contents |
| Shell | Metal shell, shockproof design |
| Weight | 4.5Kg |
| Power | 60W (Max) |
| Size | 422mm × 294mm × 56.4mm (Without antenna and mounting parts) |
| Others | |
| Items | Contents |
| Working Temp | 0 ~ +50°C |
| Storage Temp | -10 ~ +60°C |
| Humidity | 95% (No condensation) |

Topology

