

AMR-501

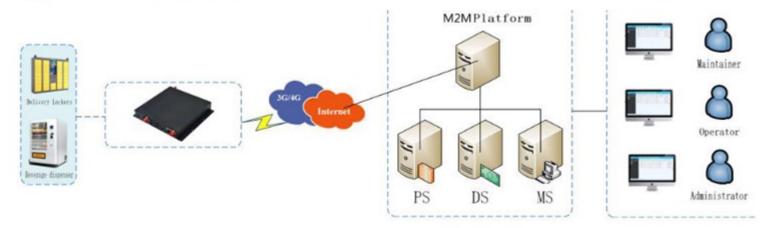
Industrial Personal Computer

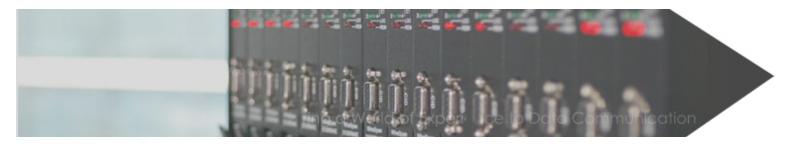
Specification

AMR-501 is a low power industrial computer. It integrates

wireless cellular network and routing technology and industrial computer technology, the device uses Freescale Cortex TM - A9 i.M 6 x processor, the frequency is 1.0 GHz, provides high-speed computing support for client's programs and tasks need. It supports OpenGLES2.0 and OpenVG TM 1.1 hardware accelerators, Full HD 1080P video codec engine, provides a smooth and strong video experience for multimedia playback. AMR-501 contains 4 USB, 3 RS232 / RS485, 1 of HDMI, Internet, audio, and so on interfaces, can be connected to external devices such as code scanner, printer, camera, keyboard, mouse, infrared touchscreen, LCD screen, etc., no need to be worried about limited interface anymore. Built-in Android operating system and provides API and development documents, make it easier for customers to use and develop applications.

Application Topography





HIGHLIGHTS

INDUSTRIAL-GRADE DESIGN

- High-performance industrial component
- Freescale Cortex™-A9 i.MX6 processor
- Professional power supply design, with undervoltage, overvoltage, overcurrent, Reverse polarity, short circuit, surge protection function
- Wide power range: DC 5~36V
- Wide temperature range:(-35°C~75°C)
- · 4-core S-terminal power connector, stable and does not fall off
- Metal casing, good heat dissipation, impact resistance
- Fanless design
- TF, SIM card with the anti-theft design
- Built-in Android, LINUX (optional) Operating System

STABLE & RELIABLE

- WDT protection, ensure system stability
- Auto recovery mechanism, including online detection, offline auto redials make sure device always online
- SSD storage (optional), High-speed data read and write to ensure security and stability
- Ethernet port: 1.5KV magnetic isolation
- RS232/RS485/RS422 port with15KV ESD protection
- SIM/UIM port with 15KV ESD protection
- Antenna port with lightning protection(optional)



STANDARD INTERFACE & EASY-TO-USE

- Entering work state automatically when powered
- Support 10/100/1000 Mbps Ethernet
- Provide multiple standard USB2.0 interfaces
- Provide multiple RS232 / RS485 Interface DB9
- Provide audio input/output interface

POWERFUL FUNCTIONS

- Support 1080p video codec and 3D acceleration
- Local storage support SSD solid-state drives (optional), TF card (optional)
- Android open environment, can be self-develop and install applications.
- Support HDMI, LVDS (optional), can connect to an external display device such as a touchscreen.
- Support 802.11 b / q / n WIFI network, and provide a variety type of encryption, support Client/AP.
- Provide rich external interfaces to meet customer application requirements
- Supports 3q / 4q dial-up Internet access
- Support APN/dial VPDN private network
- Support Intelligent online and offline reconnection, abnormal recovery functions
- Support PPTP, L2TP, IPSEC, GRE, OPEN VPN and other VPN functions
- Provide PWR, NET, WIFI LED light indicators, more convenient for use and maintenance.
- Support NTP, built-in RTC, support scheduled restart and powered on or off functions.
- Support equipment management platform for remote status monitoring, configuration, updates and other functions
- Support multiple LAN/ WAN access methods, including static IP, DHCP, 3G/4G.
- Support dual link backup between 3G/4G and LAN/WAN (optional)



Product Specification

Cellular Specific	cation
Item	Content
Cellular Module	Industrial wireless module (single SIM, dual SIM or no SIM optional)
Standard and band	TDD-LTE/FDD-LTE/EVDO/WCDMA/TD-SCDMA/CDMA1X/GPRS/EDGE Optional for single mode, multimode or full Netcom
Bandwidth	FOO LTE (Downlink rate 100Mbps, Uplink rate 50Mbps) TOO LTE (Downlink rate 61Mbps, Uplink rate 18Mbps) COMA2000 1X EVOO Rev A (Downlink rate 3.1Mbps, Uplink rate 1.8Mbps) WCDMA (Downlink rate 42Mbps, Uplink rate 5.76Mbps)
TX power	<24dBm
RX sensitivity	-c-109dBm
WIFI Specificati	on
Item	Content
Standard	Support IEEE802.11b/g/n, 2.4G
Bandwidth	EEE802.11b : 11Mbps (max)
Security	Support WEP, WPA, WPA2 such as a variety of encryption
TX power	15dBm(maxlmum)
RX sensitivity	<-70dBm@54Mpbs
Hardware Syst	em
ltem .	Content
CPU	Freescale Cortex***-A9 I.MX 6
FLASH	8GB eMMC
DDR3	298
SSD	128GB (optional, extensible 2TB)
TF	32GB (optional)
Interfaces	
ltem .	Content
Ethernet Interface	1* 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 1.5KV ESD
Serial	1° RS232/485 serial interface with built-in 15KV ESD Data bits:5, 6, 7, 8 bits Stop bits:1, 1.5 (optional), 2 bits



	Error detection: none, even parity, odd parity, SPACE (optional) and MARK (optional) Serial Port Rate: 2400~115200bits/s
Lights	"PWR", "NET", "WIFI" indicator light
SIM/UIM	Standard SIM card slot, support 1.8V/3V SIM/UIM card, built-in 15KV ESD
USB Interface	Four standard USB2.0 Interface, one standard USB2.0 OTG Interface
TF Interface	Standard spring type TF card interface, support any TF card
Audio Interface	One Speaker Interface, one Mic Interface
Display	HDMI: support 1920x1080, 1366x768, 1280x720, 1024x768 etc.
Interfaces	LVDS: support 1920x1080, 1366x768, 1280x720, 1024x768 etc.
Antenna	Cellular: 2° SMA female connector, characteristic impedance 50Ω
connector	WIFI: 1* SMA male connector, characteristic impedance 50Ω
power Interface	4-core S-terminal power connector, stable and does not fall off



Power	
Item	Content
Standard power	DC 12V/1.5A
Power range	DC 5~36V
Physical charac	ters
Item	Content
Shell	Metal case, shock resistant design
Olmensions (mm)	170mm × 150mm × 27mm (not including antenna and other add-on Items)
Welght	0.7Kg (not including antenna and other add-on items)
Other parameter	rs
Item	Content
Operating	-35~-+75°C



temperature Storage

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-40~-+85°C

- Product specifications are subject to change without notice.
- Please contact your dealer for option availability.
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