

AR7000 Industrial Cellular Router Specification

Support 5G/4G/3G/2G/WiFi Wireless Router



AR7000 Industrial Cellular Router is a kind of terminal device that developed based on 5G/4G/3G/2G, WiFi, VPN technology. It adopts high-powered industrial 32-bits CPU and embedded real time operating system. It supports RS232 (or RS485), Ethernet and WiFi port that can conveniently and transparently connect one device to a cellular network, allowing you to connect to your existing serial, Ethernet and WiFi devices with only basic configuration.

It has been widely used on M2M fields, such as intelligent transportation, smart grid, postal services, industrial automation, telemetry, finance, POS, water supply, environment protection, post, weather, and so on.

Product advantages

- ✓ High-powered industrial 32 bits CPU
- ✓ High-powered industrial cellular module
- ✓ Wide Operating Temperature(-35~+75°C)
- ✓ Power range: DC 9~35V
- ✓ Support hardware and software WDT
- ✓ Support standard RS232(or RS485), Ethernet and WiFi port that can connect to serial, Ethernet and WiFi devices directly
- ✓ Support auto recovery mechanism, including online detect, auto redial when offline to make it always online
- ✓ Power port: reverse-voltage and over voltage protection
- ✓ Convenient configuration and maintenance interface
- ✓ Support TCP server
- ✓ WiFi support 802.11b/g/n. support AP, client.
- ✓ Support multi data centers and it can support 5 data centers at the same time
- ✓ Support local log storage.
- ✓ Support dual SIM/UIM card (optional)
- ✓ Support GPS positioning (optional)

Interface description

WAN: 1 10/100Mbps Ethernet ports(RJ45)

LAN: 4 10/100Mbps Ethernet ports(RJ45)

User serial: 1 RS232(or RS485) (RJ45)

Antenna: Standard SMA female interface, 50 ohm

SIM/UIM : Standard 3V/1.8V user card interface, 15KV ESD protection

Power : Standard 3-PIN power jack, reverse-voltage and over voltage protection

Reset Button: Press this key for 8 seconds to restore the module to its original factory default settings

Indicator light: "Signal strength", "PWR", "RUN", "SIM", "Online", "LAN1", "LAN2", "LAN3", "LAN4", "WAN", "WiFi", "GPS"(optional), "SIM2"(optional)

GPS parameters(optional)

Receiver type(GPS) : 72-channel GPS L1 (1575.42MHz) C/A code

Position: 2.5m

Max. Update Rate: 18Hz

Accuracy: 0.05m/s

Electrical parameters

Power supply range: DC9~35V (12V DC recommended)

Communication current 1(4G): <500mA@12V DC

Communication current 2(5G): <900mA @12V DC

Environmental parameters

Operating temperature: -35~+75°C(-31~+167°F)

Storage temperature: -40~+85°C(-40~+185°F)

Relative humidity: 95% (non-condensing)

Mechanical parameters

Dimensions: 186.8x120.2x28mm (excluding accessories)

Weight: 580g (excluding accessories)

Supported frequency bands

5G NR SA/NSA:n1/2/3/5/7/8/12/20/28/41/66/71/77/78/79

TDD-LTE:B38/39/40/41

FDD-LTE:B1/2/3/4/5/7/8/13/17/20/25/28

WCDMA:850/900/1900/2100MHz

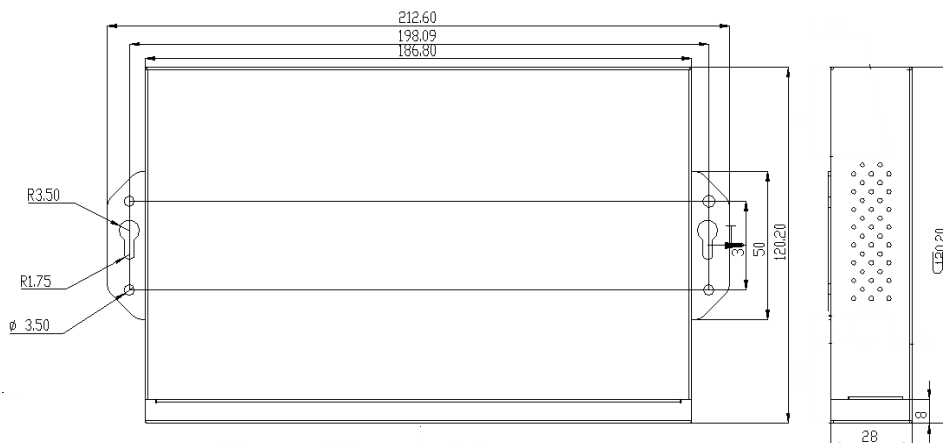
TD-SCDMA:1880-1920/2010-2025MHz(A/F)

CDMA2000 1x/ EVDO Rev. A:800/1900MHz

GSM/GPRS/EDGE:850/900/1800/1900MHz

CDMA:800/1900MHz

Dimension: (Unit: mm)



Applicable Models:

Product Type	Model	Product Name
Standard	AR7000-R	5G Industrial Cellular ROUTER
	AR7000-A	4G Industrial Cellular ROUTER
	AR7000-F	4G FDD Industrial Cellular ROUTER
	AR7000-H	4G Cat1 Industrial Cellular ROUTER
	AR7000-Q	4G FDD/TDD Industrial Cellular ROUTER

Dual SIM	AR7000-RS	5G Dual SIM Industrial Cellular ROUTER
	AR7000-AS	4G Dual SIM Industrial Cellular ROUTER
	AR7000-FS	4G FDD Dual SIM Industrial Cellular ROUTER
	AR7000-HS	4G Cat1 Dual SIM Industrial Cellular ROUTER
	AR7000-QS	4G FDD/TDD Dual SIM Industrial Cellular ROUTER
GPS	AR7000-RP	GPS+5G Industrial Cellular ROUTER
	AR7000-AP	GPS+4G Industrial Cellular ROUTER
	AR7000-FP	GPS+4G FDD Industrial Cellular ROUTER
	AR7000-HP	GPS+4G Cat1 Industrial Cellular ROUTER
	AR7000-QP	GPS+4G FDD/TDD Industrial Cellular ROUTER
GPS+Dual SIM	AR7000-RSP	GPS+5G Dual SIM Industrial Cellular ROUTER
	AR7000-ASP	GPS+4G Dual SIM Industrial Cellular ROUTER
	AR7000-FSP	GPS+4G FDD Dual SIM Industrial Cellular ROUTER
	AR7000-HSP	GPS+4G Cat1 Dual SIM Industrial Cellular ROUTER
	AR7000-QSP	GPS+4G FDD/TDD Dual SIM Industrial Cellular ROUTER
Commercial	AR7000-N	WiFi ROUTER