

AR7000 Router Specification

Support 2G/3G/4G/WIFI Wireless Router



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Applicable Models:

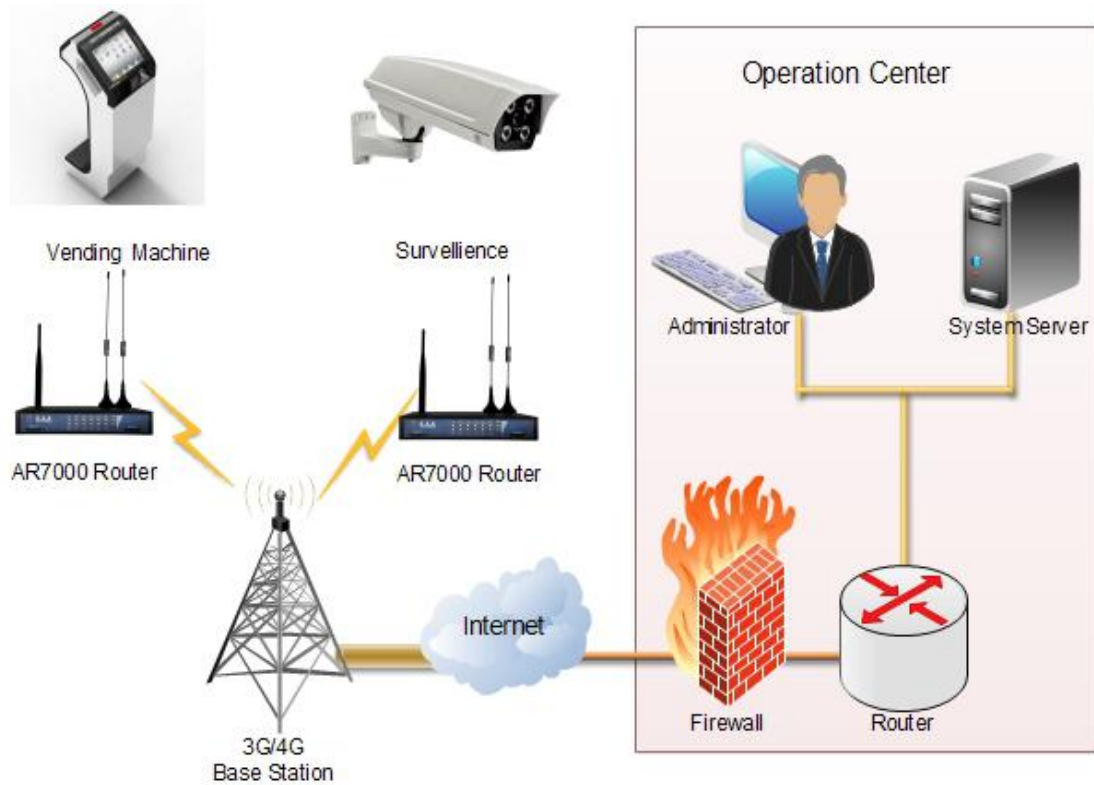
Product Type	Model	Product Name	Product Type	Model	Product Name
Standard	AR7000-W	WCDMA WIFI ROUTER	Dual SIM Card	AR7000-WS	Dual SIM Card WCDMA WIFI ROUTER
	AR7000-E	EVDO WIFI ROUTER		AR7000-ES	Dual SIM Card EVDO WIFI ROUTER
	AR7000-F	FDD-LTE WIFI ROUTER		AR7000-FS	Dual SIM Card FDD-LTE WIFI ROUTER
	AR7000-T	TDD-LTE WIFI ROUTER		AR7000-TS	Dual SIM Card TDD-LTE WIFI ROUTER
	AR7000-D	TDD/FDD-LTE WIFI ROUTER		AR7000-DS	Dual SIM Card TDD/FDD-LTE WIFI ROUTER
GPS+ Standard	AR7000-WP	GPS+WCDMA WIFI ROUTER	GPS+ Dual SIM Card	AR7000-WSP	Dual SIM Card GPS+WCDMA WIFI ROUTER
	AR7000-EP	GPS+EVDO WIFI ROUTER		AR7000-ESP	Dual SIM Card GPS+EVDO WIFI ROUTER
	AR7000-FP	GPS+FDD-LTE WIFI ROUTER		AR7000-FSP	Dual SIM Card GPS+FDD-LTE WIFI ROUTER
	AR7000-TP	GPS+TDD-LTE WIFI ROUTER		AR7000-TSP	Dual SIM Card GPS+TDD-LTE WIFI ROUTER
	AR7000-DP	GPS+TDD/FDD-LTE WIFI ROUTER		AR7000-DSP	Dual SIM Card GPS+TDD/FDD-LTE WIFI ROUTER
Commercial	AR7000-N	WIFI ROUTER			

General

AR7000 ROUTER is a kind of terminal device that developed based on 2G/3G/ 4G, WIFI, VPN technology. It adopts high-powered industrial 32-bits CPU and embedded real time operating system. It supports RS232 (or RS485/RS422), 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.

Application Topology



Product Feature

Items	Contents
Industrial Design	High-powered industrial cellular module
	High-powered industrial 32bits CPU
	Housing: iron, providing IP30 protection.
	Power range: DC 5~35V
High Reliability	Support hardware and software WDT
	Support auto recovery mechanism to make router always online
	Ethernet port: 1.5KV magnetic isolation protection
	RS232/RS485 port: 15KV ESD protection
	SIM/UIM port: 15KV ESD protection
	Power port: reverse-voltage and over voltage protection
	Antenna port: lightning protection(optional)
Standard and Convenience	Support standard RS232(or RS485/RS422), Ethernet and WIFI port that can connect to serial, Ethernet and WIFI devices directly
	Support standard WAN port and PPPOE protocol that can connect to ADSL directly
	Support intellectual mode, enter into communication state

	automatically when powered
	Support several work modes
	Convenient configuration and maintenance interface (WEB or CLI)
High-performance and Security	Support multiple WAN access methods, including static IP, DHCP, PPPOE, 2.5G/3G/4G.
	Support double link backup between 2.5G/3G/4G and WAN (optional).
	Support VPN client(PPTP, L2TP, IPSEC and GRE)(only for VPN version).
	Support remote management, SYSLOG, SNMP, TELNET, SSH, HTTPS, etc.
	Support local and remote firmware upgrade,import and export configure file.
	Support NTP, RTC embedded.
	Support multiple DDNS provider service.
	Support MAC address cloning.
	WIFI support 802.11b/g/n. support AP, client.
	WIFI support WEP,WPA,WPA2 encryption.
	Support multiple online trigger ways, including SMS, ring and data. Support link disconnection when timeout.
	Support APN/VPDN.
	Support multiple DHCP server and DHCP client, DHCP binding MAC address, DDNS, Firewall, NAT, DMZ host, QoS, traffic statistics, real-time display data transfer rate etc.
	Support TCP/IP, UDP, FTP(optional), HTTP, etc.
	Supports SPI firewall, VPN pass-through, access control, URL filtering,etc.
	Support local log storage.
Support GPS (optional).	
Support two SIM/UIM card (optional).	

Product Specification

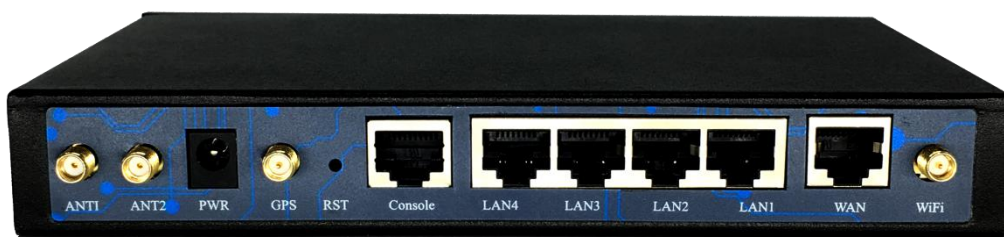
Items		Contents
Hardware System	CPU	Industrial 32bits CPU
	FLASH	16MB (Extendable to 64MB)
	SDRAM	128MB
Interface	WAN	1 10/100Mbps WAN port(RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection

LAN	4 10/100Mbps Ethernet ports(RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection
Serial	1 RS232(or RS485/RS422) port, 15KV ESD protection Data bits: 5, 6, 7, 8 Stop bits: 1, 1.5(optional), 2 Parity: none, even, odd, space(optional), mark(optional) Baud rate: 2400~115200 bps
Antenna	Cellular: Standard SMA female interface, 50 ohm WIFI: Standard SMA male interface, 50 ohm GPS(optional):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	Press this key for 8 seconds to restore the router to its original factory default settings
Indicator	"Signal strength", "PWR", "RUN", "SIM", "Online", "LAN1", "LAN2", "LAN3", "LAN4", "WAN", "WIFI", "GPS"(optional), "SIM2"(optional)

Router front interface diagram:



Router rear interface diagram:



Network	Wireless Network	GSM/GPRS/EDGE: 850/900/1800/1900MHz CDMA: 800/1900MHz WCDMA/HSUPA/HSPA+: 850/900/1900/2100MHz CDMA2000 1x/ EVDO Rev. A: 800/1900MHz TD-SCDMA: 1880-1920/2010-2025MHz(A/F)
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		TDD-LTE: Band 38/39/40/41& Band 61/62 (Private Network) FDD-LTE: Band 1/2/3/4/5/7/8/13/17/20/25
	WAN	Support PPP/PPPOE
	LAN	Support APR
	Network Authentication	Support CHAP/PAP Authentication
	Network Access	Support APN/VPDN
	IP Applications	Support Ping、Trace、DHCP Server、DHCP Relay、DHCP Client、DNS relay、DDNS、Telnet
	IP Routing	Support static routing
GPS (optional)	Receiver Type	50-channelle GPS L1 (1575.42MHz) C/A code SBAS: WAAS, EGNOS, MSAS, GAGAN
	Max. update rate	5 Hz
	Accuracy	Position: 2.5m CPE SBAS: 2.0m CPE
	Acquisition	Cold starts: 32S Warm starts: 32S Aided starts: <1S Hot starts: <3S
	Sensitivity	Tracking: -160dBm Reacquisition: -160dBm Cold starts: -146dBm
	Timing accuracy	RMS: 30ns 99%: <60ns Granularity: 21ns
	Time pulse	Configurable, 0.25 to 1000Hz
WIFI	Standard	IEEE802.11b/g/n
	Bandwidth	IEEE802.11b/g: 54Mbps (max) IEEE802.11n: 150Mbps (max)
	Security	WEP, WPA, WPA2, etc. WPS (optional)
Power supply	Standard Power	DC 12V/1.5A
	Power range	DC 5~35V
	Consumption	<450mA (@12VDC)
Physical	Dimensions	186.8x120.2x28mm

	Weight	580g
Environmental Limits	Operating Temperature	-35~+75°C (-31~+167°F)
	Storage Temperature	-40~+85°C (-40~+185°F)
	Operating Humidity	95% (unfreezing)