AR7088 Standard Router Specification

Support 2G/3G/4G Wireless Router



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Applicable Models：

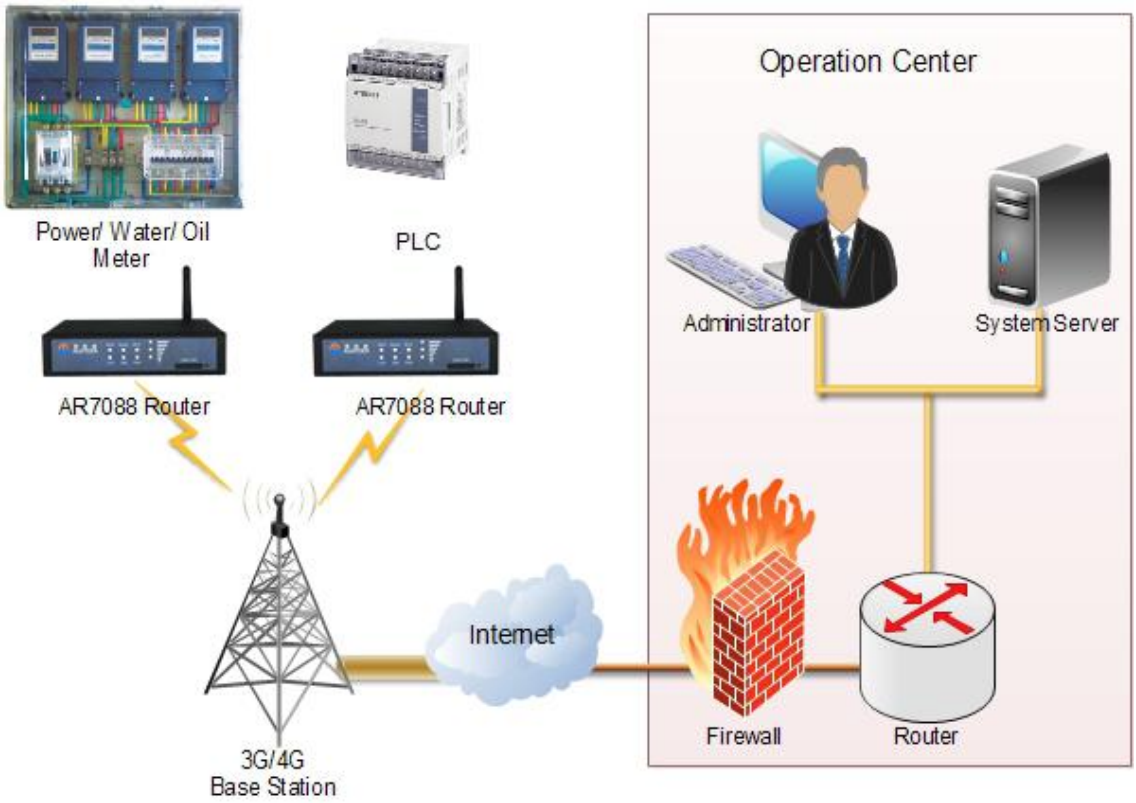
Product Type	Model	Product Name
Standard	AR7088-WSTD	WCDMA Router
	AR7088-ESTD	EVDO Router
	AR7088-FSTD	FDD-LTE Router
	AR7088-TSTD	TDD-LTE Router
	AR7088-DSTD	TDD/FDD-LTE Router

General

AR7088 ROUTER is a kind of terminal device that developed based on 2G/3G/ 4G, VPN technology. It adopts high-powered industrial 32-bits CPU and embedded real time operating system. It supports RS232 (or RS485), Ethernet port that can conveniently and transparently connect one device to a cellular network, allowing to connect to existing serial, Ethernet 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

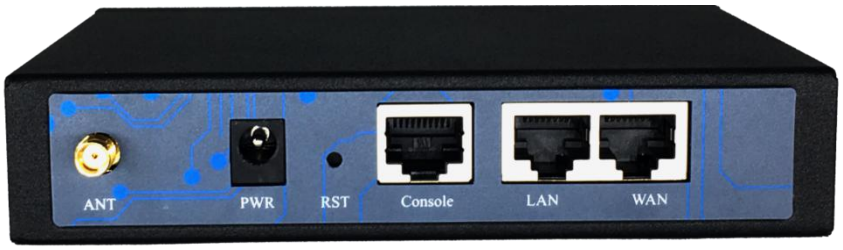
Items	Contents
Industrial Design	High-powered industrial cellular module
	High-powered industrial 32bits CPU
	Housing: iron, providing IP30 protection.
	Power range: DC 5~35V
High Reliability	Support hardware and software WDT
	Support auto recovery mechanism to make router always online
	Ethernet port: 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), 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.
	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.

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	1 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
	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"、"LAN"、"WAN"
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) TDD-LTE: Band 38/39/40/41& Band 61/62 FDD-LTE: Band 1/2/3/4/5/7/8/13/17/20/25/28
	WAN	Support PPP/PPPOE
	LAN	Support APR
	Network Authentication	Support CHAP/PAP Authentication
	Network Access	Support APN/VPDN
	IP Applications	Support Ping,Trace, DHCPServer, DHCP Relay, DHCP Client, DNS relay, DDNS, Telnet
	IP Routing	Support static routing
Power supply	Standard Power	DC 12V/1.5A
	Power range	DC 5~35V
	Consumption	<400mA (@12VDC)
Physical	Dimensions	136x99x28mm
	Weight	390g
Environmental Limits	Operating Temperature	-35~+75ºC (-31~+167℉)
	Storage Temperature	-40~+85ºC (-40~+185℉)
	Operating Humidity	95% (unfreezing)