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Website



WhatsApp

Product Catalog & Solutions

Top Industrial Routers Manufacturer

WHO WE ARE

Alotcer, Founded in Xiamen, China in 2014, is a provider of IoT and M2M communication products and solutions. Registered paid-in capital of US\$8 million, Alotcer has more than 150 employees. Our leader team has more than 20 years experience, including 50 R&D, 20 Technical, 20 sales and 4,000 square meters of Office area. As China's "AAA Credit Enterprise", "Specialized New Enterprise" and "National High-tech Enterprise", Our Product consistency, stability, delivery capability, production and sales scale are all at the leading level.



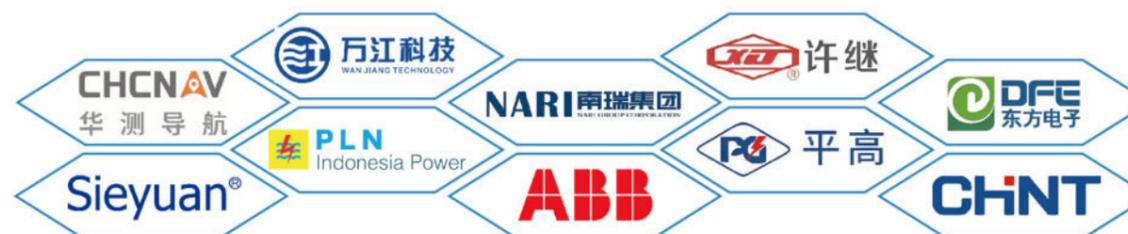
Main Products

<p>A 5G/4G Industrial Router (1/2/3/4/5 ethernet ports) P03-06</p>	<p>B 5G/4G Embedded Industrial Router (1/2/3 ethernet ports) P07-10</p>
<p>C 5G/4G Edge Computing Gateway, CPE, RTU, Modem P11-13</p>	<p>D IoT Platform and Solutions P14</p>

Main Market Share



Main Partner & Market



	Mexico	Guatemala	Spain	United Kingdom	France
	Germany	Italy	Japan	India	Singapore
	Malaysia	Indonesia	Vietnam	Thailand	Philippines

Part.1 Industrial Routers/CPE Series

Application

VPN Connection, Serial port/ Ethernet transmission, MQTT IoT Gateway, Video Surveillance, Lottery Networks, ATM Networks, Vehicle Networks, Dual Module Dual SIM Card, Mining Area/Factory Private Network, RedCap, Point-to-point Networks.



AD7028D (T/Z)



AR7088H



AR7000



AR7091

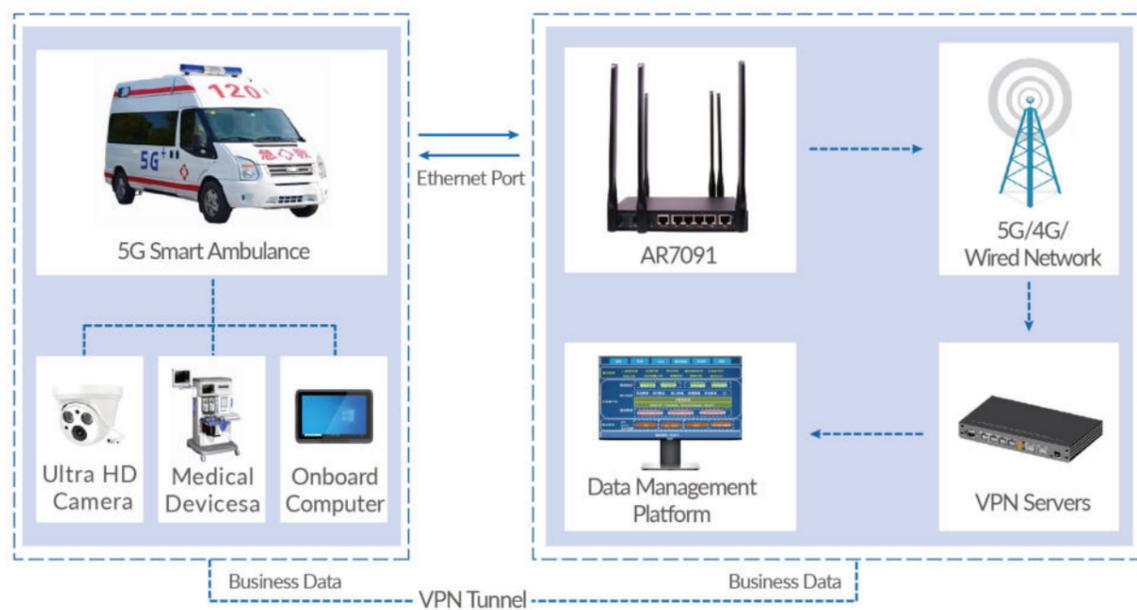


AD7028V (T/Z)

Note: "●" means supported, "-" means not supported, "○" means optional function

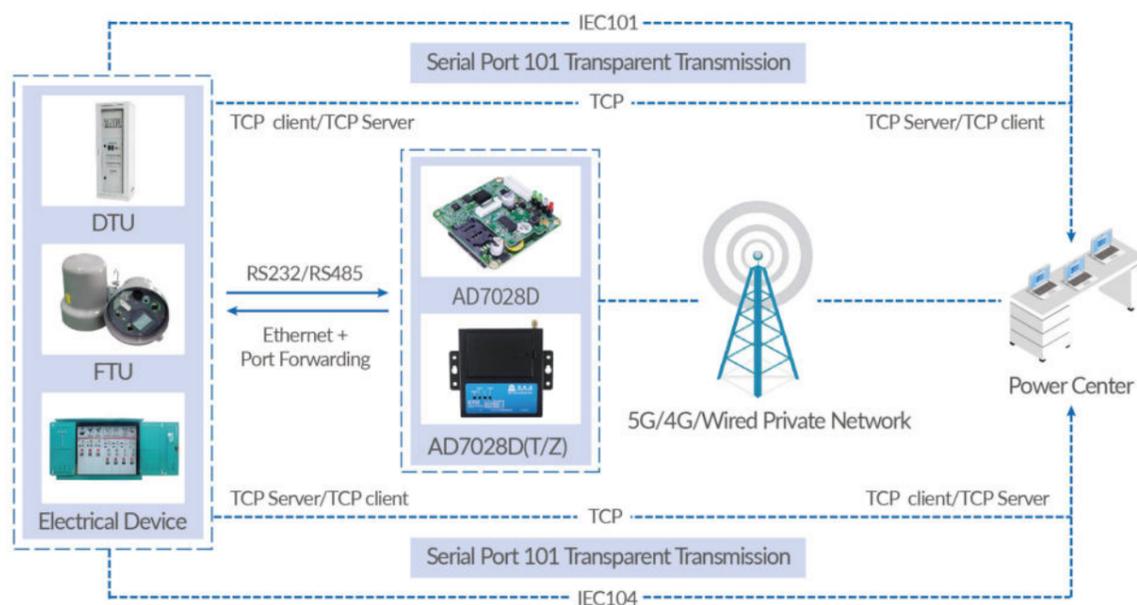
Item	Model	Alotcer 5G/4G-Industrial Routers Series				
		AD7028D(T/Z)	AD7028V(T/Z)	AR7088H	AR7000	AR7091
Networks	5G(SA/ NSA)	○	○	○	○	○
	4G(FDD/ TDD)	●	●	●	●	●
	Wired Network	●	●	●	●	●
	1 Module 1SIM	●	●	●	●	○
	1 Module 2 SIM	○	○	○	○	●
	2 Module 2 SIM	-	-	-	-	○
Serial	Port No.	1	2	1/2	2	1
	Standard	RS232*1	RS232*2	RS232/RS485*1	RS232*1+RS485*1	RS232/RS485*1
	Optional	RS485*1	RS232*1 RS485*1	RS232*1 RS485*1	RS232*2	RS232*1 RS485*1
Serial Interface	Terminal	●	●	●	-	-
	RJ45	-	-	-	●	●
Ethernets	100Mbps	2	1	3	5	-
	1000Mbps	-	-	-	-	5
WIFI	2.4G-WIFI	-	-	○	●	●
	5.8G-WIFI	-	-	-	-	○
Voltage	9~35VDC	○	○	○	●	●
	9~60VDC	●	●	●	-	-
Beidou/ GPS	Beidou/ GPS	○	○	○	○	○
Serial Protocol	TCP/ UDP/ DCUDP/ DCTCP	●	●	●	●	●
Secondary Development	C/ Python 3.4	●	●	●	●	●
VPN	PPTP/ L2TP/ IPSEC/ GRE/ OPENVPN/ GREAP/ DMVPN (Optional)	●	●	●	●	●
	Static Routing/ BGP/ OSPF/ RIP	●	●	●	●	●
	Port Forwarding/Range Forwarding/DMZ	●	●	●	●	●
Routing	VRRP/ VLAN/ DDNS/ DHCP	●	●	●	●	●
	DLT645/ DNP3/ DLMS/ Modbus/ 101/ 104	○	○	○	○	○
Protocol	Modbus/ MQTT	○	○	○	○	○
	Modbus RTU to Modbus TCP	○	○	○	○	○
	IoT Platform	Remote Management	○	○	○	○
Consumption	Standby	125mA@12VDC				320mA@12V
	Communication	175mA@12VDC				390mA@12V
Installation	DIN Rail/ Mount Kit	●	●	●	●	●
	Dimensions (mm)	110x85x32	110x85x32	107x98x24	186.8x120.2x28	186.8x120.2x28
	Weight (g)	330	330	354	580g	720

1 Smart 5G Medical Vehicle Networks Solution

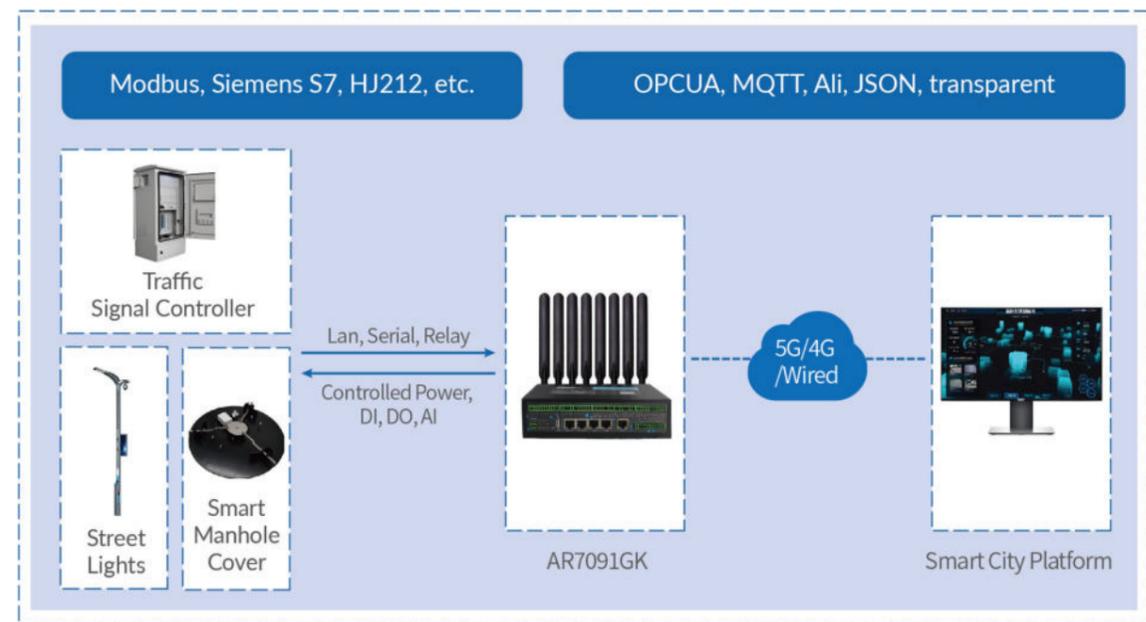


2 Power Distribution Network Automation (transparent transmission)

Support 5G/4G + Serial Port/Ethernet Port, transparently transmits IEC101/104 protocol, and realizes stable and reliable two-way data interaction between the master station and the power terminal.

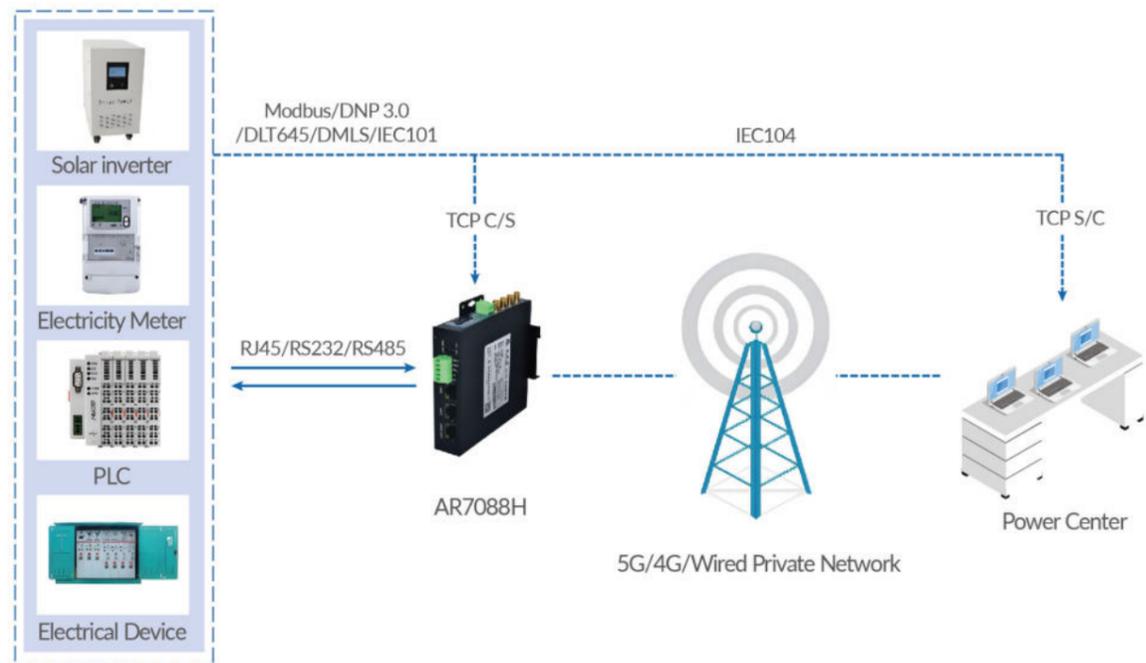


3 Smart City Solutions



4 Power Industry Protocol Conversion

Support protocols in the power industry and perform 5G/4G transmission.



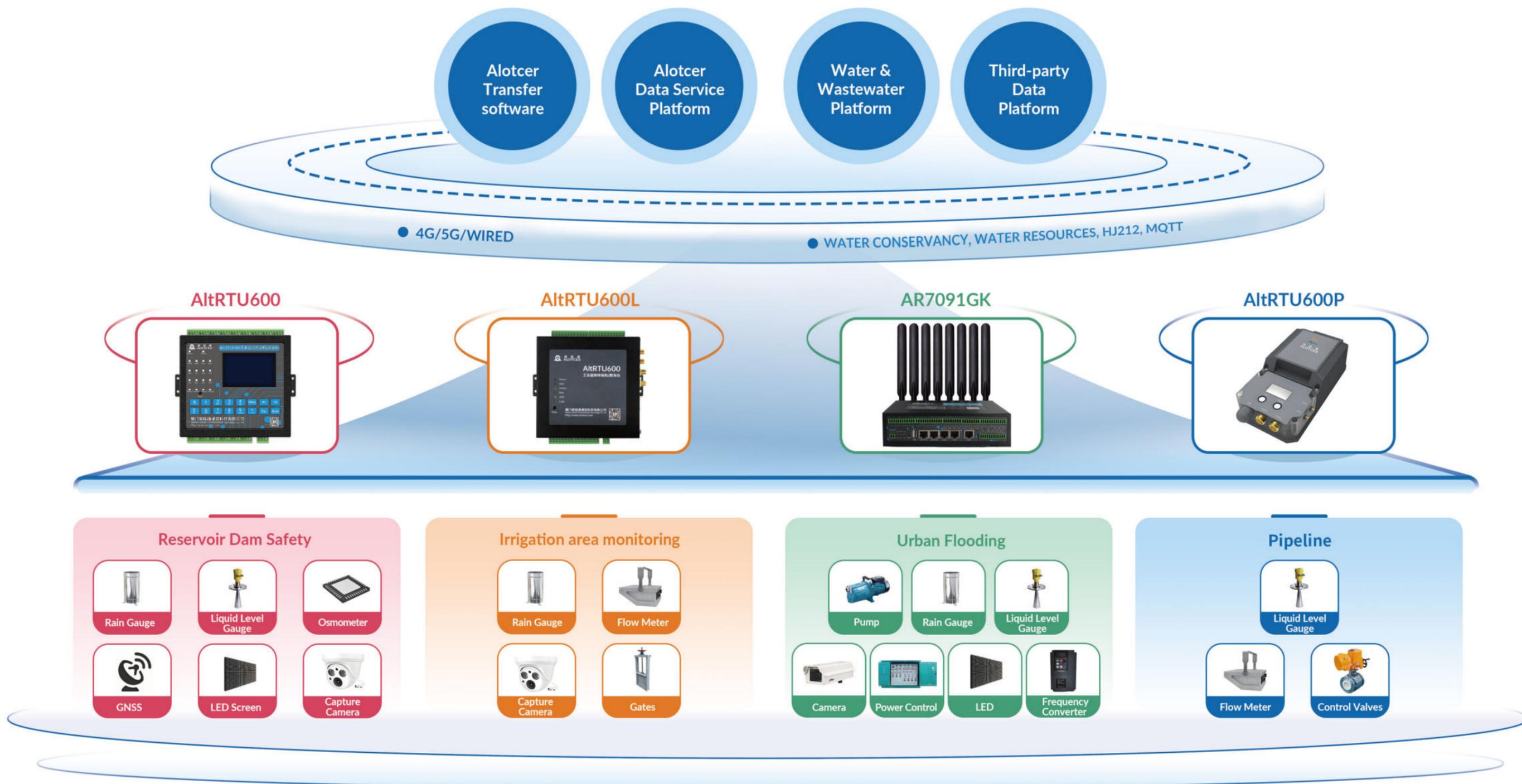
Part.2 5G/4G-RTU/EDGE Gateway/DTU Series

● Application
Water conservancy and water affairs, Environmental protection and meteorological, Industrial and agricultural.



Note: "●" means supported, "-" means not supported, "o" means optional function

Item	Model	Alotcer 5G/4G-RTU/EDGE Gateway/DTU Series				
		AlitRTU600	AlitRTU600L	AlitRTU600M	AlitRTU600P	AR7091GK
Networks	5G(SA/ NSA)	○	○	○	○	○
	4G(1 Module 1 SIM)	●	●	●	●	●
	Wired Network	●	●	●	—	●
	1 Module 2 SIM	○	—	○	—	●
	2 Module 2 SIM	—	—	—	—	●
Serial	Port No.	4	4	1	2	8
	Standard	RS232/ RS485*2 RS485*1 RS232*1	RS232/ RS485*2 RS485*1 RS485*1	RS232*1	RS485*1 RS232*1	RS232/ RS485*2 RS485*5 CAN*1
	Optional	RS232/ RS485*2 RS232*1 RS232*1	RS232/ RS485*2 TTL*1 RS232*1	RS485*1	RS485*1 TTL*1	—
Ethernets	100Mbps	1	1	1	—	—
	1000Mbps	—	—	—	—	5
Special	Expanded	LCD+SD card+POE	SD card+POE	—	LCD+IP68	2.4G/5.8G-WIFI+ Fiber+SD card USB+POE+24 I/O
I/O	Rain/ AI/ DI/ DO/ Relay/ Power	Rain*1+AI*6+ DI*8+DO*2+ Relay*4+Power*5	Rain*1+AI*4+ DI*4+DO*1+ Relay*2+Power*4	Rain*1+AI*1+ DI*1+Power*1	AI*2+DI*2+ Power*2	Rain*1+AI*2+ DI*2+Relay*2+ Power*2
Beidou/ GPS	Beidou/ GPS	○	○	○	○	○
Serial Protocol	TCP/ UDP/ DCUDP/ DCTCP (5 servers)	●	●	●	●	●
Routing	VPN/ Static (Dynamic) Routing/ VLAN	—	—	—	—	●
Secondary Development	C/ Python 3.4	—	—	—	—	●
Protocol Transfer	Modbus/ DLT645/ DNP3/ DLMS/ 101/ 104	—	—	—	—	○
	Modbus to MQTT/ Modbus RTU to Modbus TCP	○	○	○	○	○
IoT Platform	Remote Management	○	○	○	○	○
Consumption	Standby Power	40uA@12VDC		—	40uA@7.2VDC	—
	Only Collect (Rain*1+RS485*1/ ADC Collect)	10mA@12VDC		10uA@12VDC	12uA@7.2VDC	—
	Static	2mA@12V		—	1.2mA@7.2VDC	—
	Peak Power	100mA@12V		60mA@12VDC	80mA@7.2VDC	700mA@12VDC
Voltage	9~35VDC	●	●	—	—	●
	9~60VDC	—	—	●	—	—
Operating temperature	-35°C~+75°C	●	●	●	●	●
Installation	DIN Rail/ Mount Kit	●	●	●	—	●
Dimensions	Dimensions (mm)	166.2x147.8x44.5	116.2x114.2x33.1	110x85x32	—	209x150x55
	Weight (g)	1200	460	312	—	1575



1 Irrigation District Solution

Background



China's Water Ministry plans to build 30 new large-scale irrigation districts and modernize 124 existing ones, co-funded by central and local governments. The initiative aims to add 10 billion m² of irrigated land and upgrade 6.53 billion m², prioritizing digital systems to boost water efficiency and agricultural modernization.

Features



Data Acquisition

RTU collect data via pulse/RS485/AI/Ethernet Port from sensors (rain gauges, flow meters, cameras.)



Communication

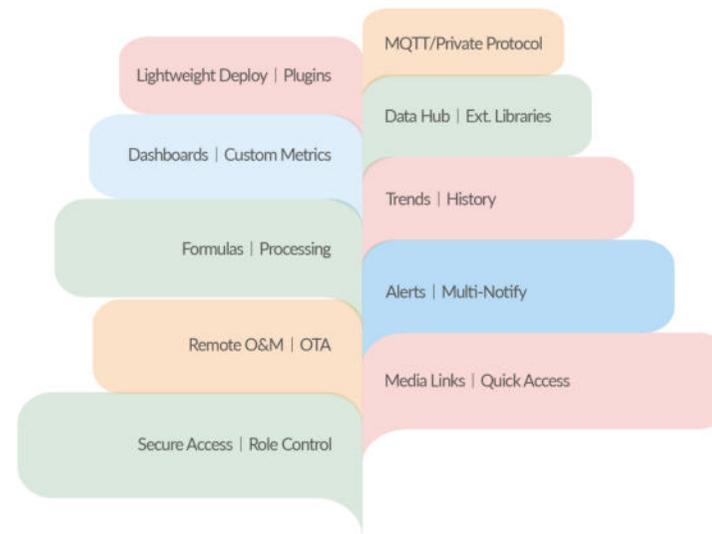
5G/4G/BeiDou-3 for data transmission to regional platforms.



Intelligent Analysis

Analyzes rainfall, water level, and image data for optimization and alerts.

System Function



Topology



2 Water and Rainfall Solution

Background



For global climate change and water resource pressure, the Internet of Things, remote sensing and big data technologies are integrated to achieve real-time monitoring, prediction, warning and scientific scheduling of core elements such as hydrology, meteorology and water volume, and provide precise support for flood prevention and disaster reduction, water resource optimization and government decision-making.

Features



Data Acquisition

RTU collect data via pulse/RS485/AI/Ethernet Port from sensors (rain gauges, flow meters, cameras.)



Communication

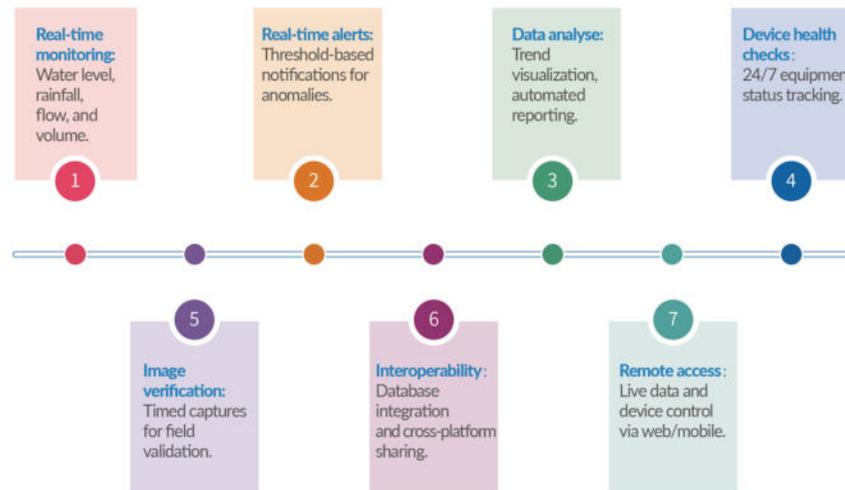
5G/4G/BeiDou-3 for data transmission to regional platforms.



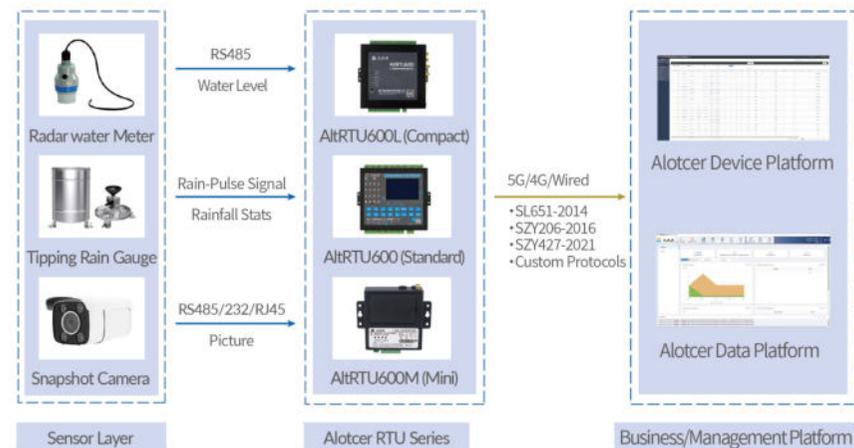
Intelligent Analysis

Analyzes rainfall, water level, and image data for optimization and alerts.

System Function



Topology



Part.3 5G/4G-Embedded Router Series

● Application

Embedded in all kinds of terminal, providing it with professional, stable, and reliable 5G/4G network.



AD7028D



AD7028V



AD7028H



AD7028S



AD7028N

Note: "●" means supported, "—" means not supported, "o" means optional function

Item	Model	Alotcer 5G/4G-Embedded Router Series				
		AD7028D	AD7028V	AD7028N	AD7028H	AD7028S
Networks	5G (SA/ NSA)	○	○	○	○	—
	4G -1SIM	●	●	●	●	●
	Wired Network	●	●	●	●	—
	1 Module 2 SIM	○	○	—	—	○
Serial	Port No.	1	2	1	2	2
	Standard	RS232/ RS485*1	RS232*2	TTL*1	RS232/ TTL*1+RS232*1	RS232*2
	Optional	—	RS232*1+RS485*1	—	RS232/ TTL*1+RS485*1	RS232*1+RS485*1
Serial Interface	9 pin 2.54mm	●	●	—	—	●
	30 pin 2.54mm	—	—	—	●	—
	16 pin 2.54mm	—	—	●	—	—
Ethernets	100Mbps	2	1	1	2	—
Special	Expanded	—	—	Fiber/ WIFI	WIFI	—
Voltage	9~60VDC	●	●	—	—	●
	4-5.5VDC	—	—	—	●	—
	3.1-3.4VDC	—	—	●	—	—
Beidou/ GPS	Beidou/ GPS	○	○	○	○	○
Serial Protocol	TCP/ UDP/ DCUDP/ DCTCP (5 servers)	●	●	●	●	●
Secondary Development	C/ Python 3.4	●	●	●	●	—
VPN	PPTP/ L2TP/ IPSEC/ GRE/ OPENVPN/ GRE/ DMVPN (Optional)	●	●	●	●	—
Routing	Static Routing/ BGP/ OSPF/ RIP	●	●	●	●	—
	Port Forwarding/ Range Forwarding/ DMZ	●	●	●	●	—
	VRRP/ VLAN/ DDNS/ DHCP	●	●	●	●	—
Protocol	Modbus/ IEC101/ IEC104/ DLT645/ DNP3/ DLMS	○	○	○	○	—
	Modbus/ MQTT	○	○	○	○	○
	Modbus RTU to Modbus TCP	○	○	○	○	—
IoT Platform	Remote Management	○	○	○	○	○
Consumption	Standby	125mA@12VDC				10mA@12V
	Communication	175mA@12VDC				Low: 65mA@12VDC Hight: 80mA@12VDC
Operating temperature	-35°C~+75°C	●	●	●	●	●
Dimensions	Dimensions (mm)	65x65x32.1	65x65x32.1	85x65x19.1	70x70x21.6	65x65x24.6
	Weight (g)	77	77	48.5	50	65

