

Overview:

The A-9N provided by ATC is a Fanless Edge Computing Controller for Ethernet and serial port.

Compared with traditional Industrial controllers, various interfaces help mutual data exchange, and shared program support various industrial projects.

The A-9N can be used for Ethernet data transmission and other functions through its third party 4G / 5G communication module. With the third party GPS function, the A-9N can also be used as a GPS tracking system for vehicle management or maritime system. It can be used in M2M application to transmit remote I/O, Modbus data or camera video.

Within the high-performance CPU, the A-9N can process large amounts of data and is suitable for harsh industrial environments.



Specification:

CPU

- TI Cortex-A8 ARM 1GHz

Memory

- DDR3 512MB onboard

Storage

- eMMC 8GB onboard

Expansion

- 1 x USB 2.0 Host for Wi-Fi module / USB-HUB / KEY-board

I/O Interface-Front

- 1 x Power LED
- 1 x RJ-45 10/100M fast Ethernet with LED
- 1 x USB Host 2.0 type A
- 1 x Phoenix connector for power (24~36VDC)/GND/ignition input

I/O Interface-Rear

- 1 x HDMI for 1920 x 1080@60Hz output
- 3 x RS-485

Power Consumption

- Max 10W

Power Management

- Auto Boot

Operating System

- Linux (Debian 11.5)
- Built-in NODE-RED

Dimensions

- 72mm (W) x 118mm (D) x 34mm (H)

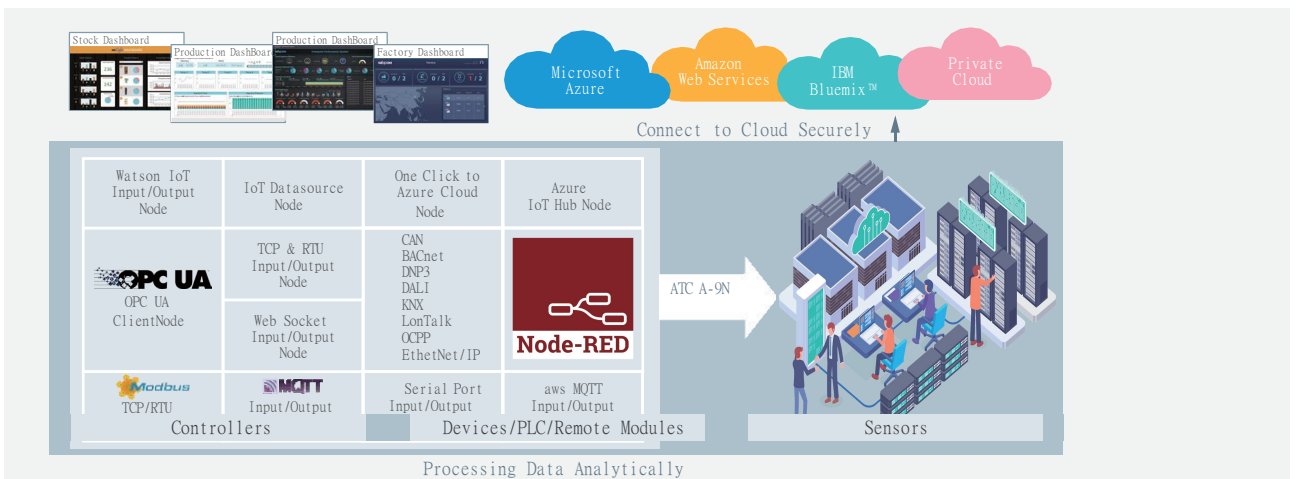
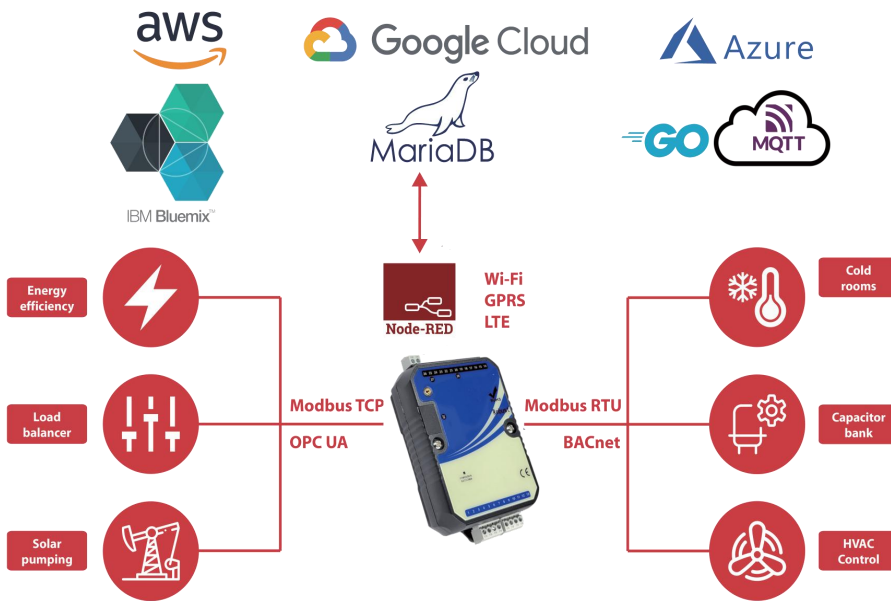
Weight

- 0.2kg

Environment

- Operating temperatures: -20°C to +70°C
- Storage temperatures: -20°C to +85°C
- Relative humidity: 90% (non-condensing)

A-9N Application:



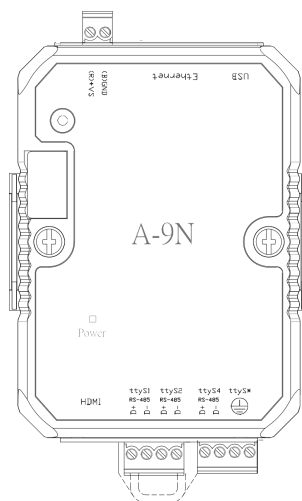
Main Features

- Ready-to-use IoT gateway to accelerate IoT project deployment
- Open architecture support both ARM-based IoT gateway
- One-click deployment to cloud
- Cloud SCADA presentation
- Real-time information response
- Support Modbus,OPC-UA,MQTT,SQL,BACNET...

Available Apps (More than 7000+ Apps)

802.1X Authenticator	NAT	Protocol MODBUS-TCP2RTU	CAN
AT Modem Emulator	NetFlow/IPFIX	Protocol NHRP	DALI
Azure IoT SDK Python3 API Version	NMAP	Protocol OSPF	LonTalk
2 Backup APN	Node-RED	Protocol PIM-SM	OpenAI
Band Select	Node-RED AWS Node	Protocol RIP	ngsi
Bluetooth	Node-RED Azure Node	Python	Whatsapp-link
Bondix S.A.NE Enterprise	Node-RED Bluetooth Lode	Python3	GSI
Captive Portal	Node-RED Dashboard	Python3 with pip	Line-api
Cumulocity	Node-RED dnp3 Node	Samba	Skype-api
CURL	Node-RED Filesystem Node	Scalable AI Manager	google-apis
Customer	Node-RED FTP Node	SCEP Client	text2speech
Logo Daily	Node-RED GPSd Node	Secure Syslog	paypal
Reboot	Node-RED gzip Node	SendReport	shopify
DHCP based on MAC	Node-RED KNX Node	Serial to network proxy	sony-audio
OUI DHCP Relay (over IPsec)	Node-RED LwM2M Node	Serial2TCP	visa-api
Docker	Node-RED Modbus Node	Service Access Limitation	ebay-api
EasyVPN	Node-RED OPC UA Node	Sleep Mode	Rest-API
Client	Node-RED PLC EtherNet/IP Node	SSHClient	line-pay
Ethernet Mirroring	Node-RED PLC Melsec Node	Stunnel	web-push
Ethernet Port Detector	Node-RED Splunk Node	TCP SYN Keep-Alive	zapier
Event Notificator	Node.js	Technical Report 069 (TR-069)	pdf-to-png
Ext4_tools	npm	Transparent mode	ui-webcam
File Uploader	NTP	UDP Communication Watchdog	pdf-red
FOTA	NTRIP Client	URL Blocker	usb-camera
FRR	OpenVPN Custom Config	USB over IP (Electronic Team)	line-image-api
GDB (GNU Debugger)	Operating Hours Counter	USR LED Management	QR-Code
GPS	Packet Splitter	Vim	opencv
HMPClient	PduSMS	WebAccess/VPN (VPN Portal)	PID-controller
HTTPS Login Banner	Pinger	Web Terminal	Mydb
L2TP Pseudowire	PLMN Whitelist	WebAccess/DMP Client	split
Layer 2 Firewall (L2FW)	pppGateway	WiFi SSID Switch	mysql
Loopback	Protocol ALPHA-MODBUS	WiFi STA Relay	ODBC
LUA	Protocol BGP	wM-BUS CONCENTRATOR	mongod
Midnight	Protocol DF1-Ethernet	WoLGateway	.
Commander	Protocol IEC101-104	XC-CNT FW update	.
Modbus logger	Protocol IS-IS	Zabbix Agent	.
Modbus to LwM2M	Protocol MODBUS-RTU2TCP	BACnet	.
Modbus to MQTT	Protocol MODBUS-RTUMAP	OCCP	.
MQTT Broker			
MQTT Manager			

Outline drawing:



Contact us

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