

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)

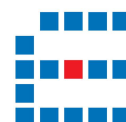
Weight

- 0.2kg

Environment

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

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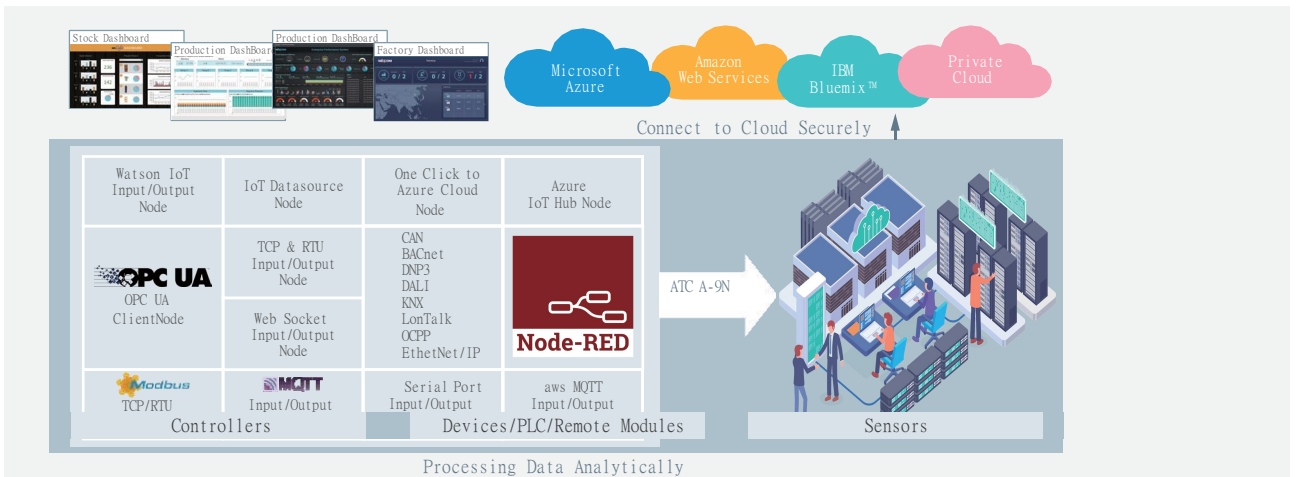
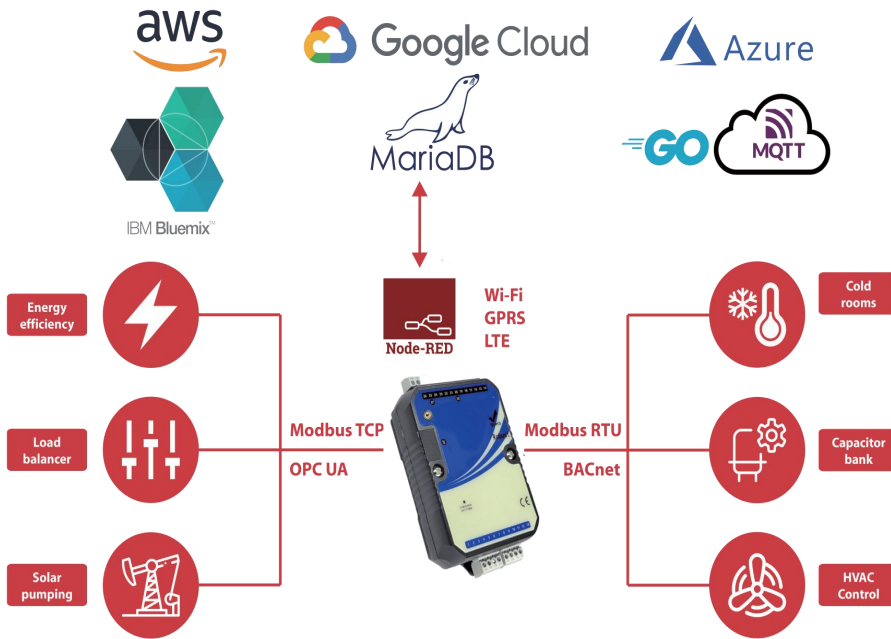


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A-9N Application:



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
 AT Modem Emulator
 Azure IoT SDK Python3 API Version
 2 Backup APN
 Band Select
 Bluetooth
 Bondix S.A.NE Enterprise
 Captive Portal
 Cumulocity
 CURL
 Customer
 Logo Daily
 Reboot
 DHCP based on MAC
 OUI DHCP Relay (over IPsec)
 DNP3 Outstation
 Docker
 EasyVPN
 Client
 Ethernet Mirroring
 Ethernet Port Detector
 Event Notificator
 Ext4_tools
 File Uploader
 FOTA
 FRR
 GDB (GNU Debugger) GPS
 HMPCClient
 HTTPS Login Banner
 L2TP Pseudowire
 Layer 2 Firewall (L2FW)
 Loopback
 LUA
 Midnight
 Commander
 Modbus logger
 Modbus to LwM2M
 Modbus to MQTT
 MQTT Broker
 MQTT Manager

NAT
 NetFlow/IPFIX
 NMAP
 Node-RED
 Node-RED AWS Node
 Node-RED Azure Node
 Node-RED Bluetooth Lode
 Node-RED Dashboard
 Node-RED dnp3 Node
 Node-RED Filesystem Node
 Node-RED FTP Node
 Node-RED GPSd Node
 Node-RED gzip Node
 Node-RED KNX Node
 Node-RED LwM2M Node
 Node-RED Modbus Node
 Node-RED OPC UA Node
 Node-RED PLC EtherNet/IP Node
 Node-RED PLC Melsec Node
 Node-RED Splunk Node
 Node.js
 npm
 NTP
 NTRIP Client
 OpenVPN Custom Config
 Operating Hours Counter
 Packet Splitter
 PduSMS
 Pinger
 PLMN Whitelist
 pppGateway
 Protocol ALPHA-MODBUS
 Protocol BGP
 Protocol DF1-Ethernet
 Protocol IEC101-104
 Protocol IS-IS
 Protocol MODBUS-RTU2TCP
 Protocol MODBUS-RTUMAP

Protocol MODBUS-TCP2RTU
 Protocol NHRP
 Protocol OSPF
 Protocol PIM-SM
 Protocol RIP
 Python
 Python3
 Python3 with pip
 Samba
 Scailable AI Manager
 SCEP Client
 Secure Syslog
 SendReport
 Serial to network proxy
 Serial2TCP
 Service Access Limitation
 Sleep Mode
 SSHClient
 Stunnel
 TCP SYN Keep-Alive
 Technical Report 069 (TR-069)
 Transparent mode
 UDP Communication Watchdog
 URL Blocker
 USB over IP (Electronic Team)
 USR LED Management
 Vim
 WebAccess/VPN (VPN Portal)
 Web Terminal
 WebAccess/DMP Client
 WiFi SSID Switch
 WiFi STA Relay
 wM-BUS CONCENTRATOR
 WoLGateway
 XC-CNT FW update
 Zabbix Agent
 BACnet
 OCCP

CAN
 DALI
 LonTalk
 OpenAI
 ngsi
 Whatsapp-link
 GSI
 Line-api
 Skype-api
 google-apis
 text2speech
 paypal
 shopify
 sony-audio
 visa-api
 ebay-api
 Rest-API
 line-pay
 web-push
 zapier
 pdf-to-png
 ui-webcam
 pdf-red
 usb-camera
 line-image-api
 QR-Code
 opencv
 PID-controller
 Mydb
 splite
 mysql
 ODBC
 mongodb
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Outline drawing:

