AVCOMM
INDUSTRIAL IT

Industrial IoT Solution

Industrial IoT Gateways

IoT Gateway

AP200, AP300, AP300-PoE, AP400 series

- Dual radio 4G/LTE/NB-IoT + Wi-Fi wireless network
- Serial communication & high throughput data switching
- Enhanced cyber security & redundancy
- Built in cloud agent for AWS, Azure and private cloud, ATMS and ATMS OTA IoT platform complimentary for start
- Rugged design for wayside surveillance, ITS application

Cost effective, easy to implement

Fiber connection with wireless backups

Highly integrated, IP 68, ideal for Smart Applications

AP200 series *AP300 series* *AP400 series*

LoRa Gateway

AP100-LM, AP200-LM, AP144-LC, AP140-LR, AP312GR, AP322GR

- Reliable LoRa MAC radio communication
- LoRa WAN end-node, LoRa /Modbus RTU client agent
- Industrial LoRa gateway, 2GbE+2COM, 4 inputs and 2 outputs
- LoRa WAN/RTU extension by LoRa, with DMA – auto polling RTU function
- Industrial grade and secured radio communication

LoRa MAC master supports Max. 250 LoRa clines, actual 6km distance

LoRa WAN gateways

Modbus to LoRa

AP100 protocol converter *AP100 LoRa MAC gateways* *AP300 LoRa Gateways with AP100 LoRa WAN gateways*

IoT Sensors

Outdoor Environmental Sensor

AVC-ES101 Environment Series, AVC-ES102, AVC-ES104, AVC-ES105, AVC-ES106, AVC-ES107,

- Outdoor integrated sensor, such as temperature, humidity, noise, pressure, wind speed, wind direction, CO2, etc.
- Output via RS-485
- Suitable for agriculture, residential or industrial area weather, remote weather stations, etc.
- Work with IoT cloud platform – ATMS

AVC-ES101 shelter for multiple sensors

AVC-ES101UV Outdoor solar radiation

AVC-ES101GR Rain measurement

AVC-ES105 to 107 Multiple sensor configurations

Air Quality Sensor

AVC-ES101 Air Quality Series

- Monitoring CO,O3, NO2, CO2,SO2, PM, O2, H2S, NH3, H2 or CH4 concentration
- Output via RS-485
- Suitable for warehouse, workshop, chemical plant, farm, confined space, etc.
- Support IoT cloud platform – ATMS

Avcomm delivers now 16 kinds of gas & air quality sensor

AVC-ES101CO-X *AVC-ES101 for hazardous gas* *AVC-ES101CO2-X*

*X indicate the value of ppm range

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Soil Quality Sensor

AVC-ES101 Soil Quality Series

- Monitoring soil moisture, temperature, PH or EC
- Output via RS-485
- Anti-corrosion special electrode
- IP68
- 10-30V, 12~24V
- Support IoT cloud platform – ATMS

Moisture & Temperature for Soil

PH for Soil

EC & Moisture for Soil

AVC-ES101SM

AVC-ES101SPH

AVC-ES101SEC

Water Quality Sensor

AVC-WS101LL-10M, AVC-WS102

- Monitoring water PH, DOS, ORP, CL, EC or liquid level
- Output via RS-485
- Suitable for water treatment, sewage treatment, aquaculture, surface water monitoring, environmental protection engineering, beverage and food, etc.
- Support IoT cloud platform – ATMS

AVC-WS102PH

AVC-WS102 Series For multiple elements
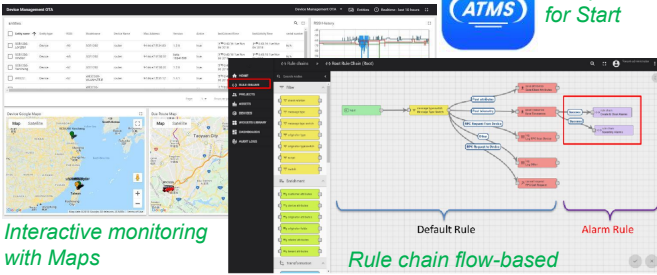
AVC-WS101LL-X

Software

Intelligent Private IIOT Platform

ATMS, ATMS OTA Software

- MQTT and RESTful API for easy access to data from an Industrial IoT gateway.
- Real-time online monitoring, analysis, reporting
- Remote cloud security and visual management
- Flexible and secured access from any web browser either in PC or smart phone
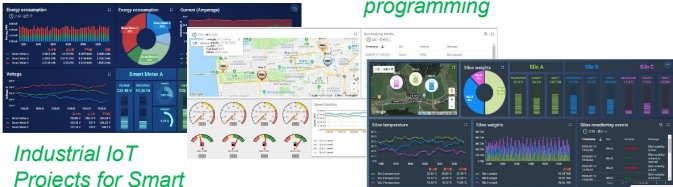
ATMS *Complimentary for Start*

Interactive monitoring with Maps

Rule chain flow-based programming

Default Rule Alarm Rule

Industrial IoT Projects for Smart Applications

Accessories

Antenna and Wires

AAT-LTE, AAT-WLAN, AAT-LTE_WLAN, AAT-GPS, AFC-RF, AAT-SCB-Module-LTE, AAT-SCB-Module-WLAN, AVC-SCB412, AVC-SCB-422

- Optional Combo IP67 antenna and single antenna
- LTE MIMO, Wi-Fi MIMO, GPS/ GLONASS/ GALILEO/ BEIDOU
- RP SMA Male connector or N-Type Male connector
- Suitable for vehicle, roadside box, etc.

Cellular LTE Antennas LoRa Antennas GPS Antennas

WLAN Antennas, Panel, Yagi, Sector available for long distance for WLAN

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