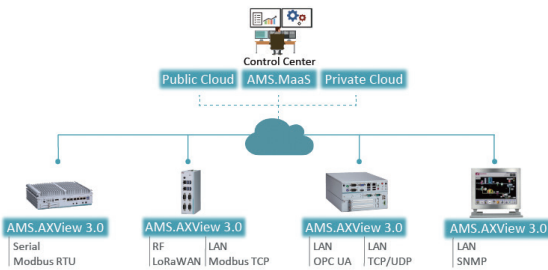


Agent MaaS Suite (AMS)

Industrial IoT Management System Solution

Introduction

Agent MaaS Suite (AMS), an enhanced version of AXView 2.0 combining AXView 3.0 and MaaS, is a highly integrated industrial IoT management system that provides device setting and monitoring, event detection and notification, as well as plug-in standard protocols. The system also integrates a visual programming development tool: Node-RED. With AMS, it takes four simple steps (plug, play, configure and play) to quickly build up projects - with zero programming required. Only JavaScript, an entry level and popular programming language, is reserved for flow design and development. AMS is very suitable for SI, OT, IT professionals, Makers or anyone who needs an easy-to-build POC platform to verify concepts or add more functions. AMS is also developed into a web-based service, so that through the Internet and browser users can manage their devices and systems anytime and anywhere.



Device Management– AXView 3.0

AXView 3.0 provides system management capabilities for device setting, monitoring and event notification. It supports plug-in protocols including Modbus, MQTT, Socket, WebSocket, HTTP and TCP/UDP, allowing users to manage connected devices through serial ports or LAN ports. AXView 3.0 also integrates Node-RED as a visual development tool for users to process and visualize data quickly and easily. AXView 3.0 can support more protocols by plug-in and comes with a lot of flow templates for flow design in Node-RED for different verticals and applications.

| | | | |
|--|-----------------------------|--|------------------------------------|
| | Device Configuration | | IO Port Proactive Detection |
| | Protocol Plug-in | | Node-RED Integrated |
| | 24/7 Self-monitoring | | Event Management |
| | Dashboard Built-in | | Nodes & Templates |

Remote Management – MaaS

As the term "Management as a Service" (MaaS) indicates, MaaS serves as a remote device and system management tool and supports functions that help administrators to locate, identify and manage a system and review monitoring data for behavior analysis on its network.

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|--|--------------------------------|--|--------------------------|--|----------------------------|--|---|
| | Multi-device Management | | Remote Monitoring | | Device Network View | | Event Notification & Retracing |
|--|--------------------------------|--|--------------------------|--|----------------------------|--|---|

Features

- Device Setting: System control and configuration through web-based service for convenient operation
- On-line Monitoring: 24 x 7 on-line system monitoring, alarming trigger and visualized data in dashboard
- Notification: Notifies events by e-mail (default) and also can trigger digital output or push messages through MQTT and social media
- Protocol Plug-in: Communication support for Modbus, MQTT, REST, WebSocket, HTTP and TCP/UDP
- Node-RED Integrated: Provides a flow-based development tool for visual programming without advantaged programming skill and makes it easy to process data and design processing flows
- Dashboard Built-in: Built-in simple dashboard components for users to generate monitoring dashboards easily and quickly
- API Becomes Nodes and Templates: Converts AXView API to be a node and pre-installs in Node-RED for user access hardware monitoring and DIO without programming

Specifications

| | | |
|----------------------|--|---|
| Communication | Interface | RS-485, RJ-45, Wi-Fi, 3G/4G |
| | Protocol | Modbus, MQTT, TCP/UDP, HTTP, Socket, WebSocket |
| Monitoring | System | Voltage, temperature, Digital I/O, fan speed, status, and USB insert/remove |
| | Connected device | for Modbus device |
| Develop Tool | Node-RED integrated | |
| Programming Language | JavaScript supported | |
| Public Cloud | Connection support: Amazon AWS, Microsoft Azure | |
| Security | Watchdog timer to ensure normal operation | |
| | Operating per user ID authentication | |
| System Requirements | OS | Linux Ubuntu 16.04 or Yocto 2.5.1 |
| | CPU | Intel® Atom® processor E3815 or above |
| | Storage | 16GB or above |
| | Memory | 4GB or above |
| Platforms | Please refer to [Hardware Platform Support List] | |

Hardware Platform Support List

| | |
|-------------------------|---|
| Fanless Embedded System | eBOX100-312, eBOX560-300, eBOX560-500, eBOX560-512, eBOX565-312, eBOX565-500, eBOX625-853, eBOX626-853, eBOX627-312, eBOX625-312, eBOX670-891 |
| IoT Gateway | ICO100-839, ICO120-83D, ICO300-83B, ICO310, ICO320-83C |
| Transportation System | tBOX300-510, tBOX324-894, tBOX500-510, UST100-508, UST500-510 |
| Fanless Touch Panel PC | GOT110-316 |
| Digital Signage Player | DSP300 |
| Industrial PC | IPC962-511, IPC962-512, IPC964-512, IPS960-511-PoE, IPS962-512-PoE |
| Industrial Motherboard | IMB520, IMB523 |
| System Host Board | SHB150, SHB140 |
| Card/Module | AX92320 |

Ordering Information

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|------------------------|---|
| Agent MaaS Suite (AMS) | Industrial IoT management system solution |
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