

EdgeHub



Features

- Direct I/O & OTA
- One Step to Onboard Device
- Embedded EdgeHub Private Network service (EPN)
- Remote container deployment
- Enterprise-Grade Access Control
- Flexible Event Notification Center
- Multi-Tenancy Architecture
- Support EdgeLink devices, ADAM ethernet I/O series, WISE wireless I/O series, LoRaWAN devices, Industrial PCs and SCADA

Introduction

EdgeHub is an Advantech device management service centered on intelligent connectivity, designed to enhance the operational efficiency of Advantech edge devices across various Industrial IoT (IIoT) application scenarios. It serves as a unique specification of Advantech hardware, providing differentiated advantages in the IIoT market. EdgeHub is not a standalone software package, but an integral part of Advantech hardware—a native extension that delivers a complete, future-ready solution.

Feature Highlights

Device Management

- Real-time I/O monitoring and control
- Seamless OTA updates – firmware and configuration
- Remote access to terminals via embedded EdgeHub Private Network service (EPN)
- Container/Stack Remote deployment and Lifecycle management

Edge Utility Enhancement*

- One-click device registration to EdgeHub
- Cross-site device management via utility interface

*ADAM Utility & EdgeLink Studio are supported

Rule Engine

- Multi-condition triggers with multiple data points and thresholds
- Custom notification management with visual workflow builder
- Supports range, complex, and alarm code formats for event rules.

Security & Authentication

- X.509 certificate-based authentication for enterprise-grade security and trusted connections
- Comprehensive access control with customizable granular permission settings
- Secure tunnel to remotely access devices
- Supports TLS, SSL, and X.509 for security.

Rapid Onboarding

- Bulk device provisioning via CSV import
- Plug-and-play device onboarding with automatic network discovery and device identification*

*partial devices are supported

Multi-Tenancy

- Complete tenant isolation – device, network traffic, API access, user management
- Hierarchical organization structure with parent-child relationships for enterprise deployment

Software Specification

| | | |
|-----------------------------|-------------------------------|--|
| System Platform | Offering | <ul style="list-style-type: none"> Cloud hosted by Advantech (Subscription) Container base (One-off purchase) |
| Management Functions | User Management | <ul style="list-style-type: none"> Default role: Admin / Editor / Engineer / Operator / Viewer Allow custom role |
| | Account management | <ul style="list-style-type: none"> Use WISE-IoTSuite SSO Support two factor authentication (2FA) |
| | Tenant & group hierarchy | Yes |
| | Subtenant's quota management | Yes |
| Device Connectivity | Connection | MQTT / MQTTs |
| | Security | TLS, SSL, X.509 |
| | WebAccess/SCADA | Supported |
| | EdgeLink | Supported |
| | ADAM, WISE I/O devices | Supported |
| | LoRaWAN devices | Supported |
| | UNO, TPC PCs | Supported |
| | 3 rd party PCs | Windows and Linux supported |
| Applications | Device monitoring | Tag value and quality, DI/DO, AI/AO channel value, computer status |
| | Remote configuration | <ul style="list-style-type: none"> IO configuration OS reboot, shutdown, watchdog iBMC reset, shutdown, reboot, on/off, boot order change, remote desktop and terminal (with EdgeHub Suite installed) |
| | Remote OTA | Firmware OTA, project/configuration file OTA |
| | Direct access to terminals | <ul style="list-style-type: none"> EdgeHub Private Network (EPN) for EdgeLink devices with firmware 2.8.4.2 or above Support configuration of virtual IP terminals |
| | Application remote deployment | <ul style="list-style-type: none"> Support docker / docker compose remote deployment Docker / docker compose lifecycle management |
| | Device grouping | Device group monitoring, OTA |
| | Scheduled task management | Computer reboot, iBMC operations |
| | Configuration file repository | EdgeLink project, ADAM configuration file |
| | Virtual twin objects | Customer dynamically defined |
| | Visualization tools | EdgeView, Dashboard, SaaS Composer |
| | Event rules | Supports range, complex, alarm code formats |
| | Notification content | Customized content and multiple variables |
| | Notification media | E-mail, LINE, WeChat |
| | Data plugin | API |
| | Data forwarding | API, MSSQL, MQTT |
| Data archiving | Yes | |

Software Specification

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|------------------|--------------------------------|---|
| Templates | Virtual object profiles | Yes |
| | Command center menu management | Supports two vertical and one horizontal command center configuration |

Order Information

Cloud Services Hosted by Advantech

| Part Number | Description | Part Number | Description |
|----------------|--|----------------|---------------------------------------|
| 32CSEGBM000101 | Monthly license for EdgeHub object parameter*100 | 32CSEGDM000201 | Monthly license for 10 EPN server |
| 32CSEGBM000201 | Monthly license for EdgeHub parameter*1000 | 32CSEGDY000101 | Annual license for 100 EPN server |
| 32CSEGBY000101 | Annual license for EdgeHub object parameter*5000 | 32CSEGCP000101 | Add-on plan for EdgeHub traffic 30GB |
| 32CSEGDM000101 | Monthly license for 1 EPN server | 32CSEGCP000201 | Add-on plan for EdgeHub traffic 100GB |

Containerized On-Prem EdgeHub (Pure Software)

| Part Number | Description | Part Number | Description |
|----------------|--|----------------|---|
| 32CSEPAP000101 | On-prem EdgeHub for 500 devices | 32CSEPBP000201 | Add-on 20000 parameters for on-prem EdgeHub |
| 32CSEPAP000201 | On-prem EdgeHub for 2000 devices | 32CSEPBP000101 | Add-on EPN for on-prem EdgeHub |
| 32CSEPBP000101 | Add-on 5000 parameters for on-prem EdgeHub | | |