

# EIS-S230

## Data Service Server for Private Cloud Solution

NEW



WISE-PaaS/DeviceOn

### Features

- Integrated hardware plus software for back-end data service and light private cloud
- Pre-configured system: Intel Xeon, Ubuntu OS with 32GB RAM/ 512GB mSATA SSD
- Open and Standard structure: kubernetes Built-in, Multiple DB Connections, On-demand Microservices
- Integrated IoT Software: Private Cloud Deployment, Platform Management, Application Integration
- Application integration: WISE-PaaS/DeviceOn, Grafana, Prometheus, Kubeapps, Kubernetes Dashboard
- Sustainable Management: Condition Monitor, Load Balance, Self-Healing
- WISE-PaaS/DeviceOn inside for IoT Device Operation Management



### Introduction

For accelerating IoT application landing, Advantech provide Data Service Server EIS-S230 for our customer to build a stable and reliable back-end data service or light private cloud. EIS-S230 is a all-in-one solution for user. It built in Intel Xeon or Core i7 CPU to offer extreme computing power for data service. Moreover, EIS-S230 is integrated Kubernetes to support micro-service, and build-in complete back-end software components, includes RabbitMQ for IoT Hub, mongoDB and PostgreSQL for database, Grafana for data visualization and Prometheus for Back-end management. EIS-S230 also provide dynamically scale out function, user can extend the resources if necessary. It help customer create IoT applications more easily and flexibly. Speed up the time to market.

### Software Stack

#### Platform Management

**Database Management**

- PostgreSQL
- mongoDB

**Backend Management**

- K8S
- ceph

**Message Broker**

- RabbitMQ

#### Operation Management

##### WISE-PaaS/DeviceOn

**Device Management**

- Automatic device registration
- One-key to dashboard
- Device security

**Monitoring & Control**

- Real-time operations
- Power on/off
- Remote control

**Update Management**

- Batch provisioning
- Firmware updates
- Software updates

#### Applications Development

**Data Visualization**

- Prometheus
- Grafana

**Applications Management**

- APP
- Docker
- HCR

**Machine Learning**

- Making deployments of machine learning (ML) workflows on Kubernetes Device Management

## Server Function List

Manage & Monitor	Comprehensive management & monitoring Web console
High Availability	Supports highly available deployment
Scalability	Horizontal/Vertical scaling via clustering with server architecture and kubernetes' features
Lightweight and Easy to Deploy	Microservices architecture to deploy and run applications easily
Role-Based Access Control	Fine-grained authorization and authentication
Load Balancing	Balancing workload and network traffic
Health Check & Self-Heal	Check health status of services and heal them in need

\*\*Support depends on device type, OS and account permission.

## System Specifications

Model Name	<b>EIS-S230</b>
Processor	Intel® Xeon® E3-1275 V6 / 6th Gen. Core™ i7-6700 (Optional)
Storage	512GB mSATA SSD (OS) / Data storage (Optional)
RAM	32GB DDR4 ECC 2400MHz SO-DIMM
OS	Ubuntu 16.04
Others	PCIe x 2, TPM 2.0
Display	HDMI x 1, VGA x 1
I/O	USB 3.0 x 8, GBE LAN x 4, Serial port x 4
Power Input	9-36V DC-in (AT/ATX mode)
Dimension	156.5 x 205 x 230 mm (6.16" x 8.07" x 9.06")
Environment Temperature	0 ~ 40 °C

## Ordering Information

Part Number	CPU	Memory	Storage	OS	Display	GbE	USB 3.0	Serial	Audio	Power Input	Expansion	Operating Temperature*
EIS-S230-U20S501	Intel® Xeon® E3-1275 V6	32GB	512GB SSD	Ubuntu	1 x VGA 1 x HDMI	4	8	4	LINE out	9-36V	2 x PCIe	0 ~ 40° C

\* If industrial grade memory and SSD selected.

## Packing List

Item	Description
1	EIS-S230
2	Data Service Server software packages
3	AC to DC power adapter, DC 24V 220W
4	Accessory Package

## Optional Items

Part Number	Description
1702002600	Power cable 3-pin 183cm, USA type
1702002605	Power cable 3-pin 183cm, EU type
1702031801	Power cable 3-pin 183cm, UK type
1700000237	Power cable 3-pin 183cm, PSE type
1700019146	3-pin power cord (CCC)
96ND1TB-ST-SG5KA	Seagate ST1000VT001 1TB HDD
96ND5TB-ST-SG5KG	Seagate ST5000LM000 5TB HDD
SQF-S25V4-1T-SBC	SQF 2.5" SSD 1TB SSD

\* MUST select two pieces of HDD/SSD as data storage.