# WISE-STACK 300

## WISE-PaaS On-Premises Deployment with 6 Advantech Industrial Rackmount Servers (integrated in a rack)

## Features

- All-in-one rack design with server monitoring
- Flexibility and elasticity
- SDN &SDS with enhanced security
- Multi-tenantable
- Non-stop cloud services
- CPU-based AI with 3D Visualization
- WISE-PaaS/Dashboard
- WISE-PaaS/OTA
- WISE-PaaS/APM

## Introduction

WISE-STACK Private Cloud is an industrial-grade private cloud solution launched by Advantech based on the WISE-PaaS data application platform. It solves the huge data management and application issues brought about by the coming AIoT era. WISE-PaaS data application platform provides multiple application framework services from data collection and analysis to visual presentation, plus a variety of integrations specifically designed for industrial customers. WISE-STACK Private Cloud allows you to quickly compose solutions to fit your business scenarios.

WISE-STACK Private Cloud is deployed in your enterprise as a private cloud, with the computing and storage capabilities of a small data center, which makes it highly suitable for customers who value the following characteristics:

- Private and secure knowledge in a special proprietary field i.e., the company's local proprietary cloud installed to ensure that data does not leak.
- Real-time applications with large amounts of data i.e., reducing the network delay and bandwidth limitations of big data.
- Uninterrupted High Availability (HA) i.e., not shutting down the entire cloud application due to a single component, or service downtime.
- Quicker implementation times for running AIoT solutions in public clouds i.e., lowering the entry threshold to help customers quickly deploy smart manufacturing, medical care, buildings, cities, and smart energy and environment solutions!

WISE-STACK represents the sensible long-term ROI solution.

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## Specifications

| System PN | | W-STACK300-R | W-STACK300-F |
|---|---|---|---|
| Form factor | | 42U rack | |
| WISE-PaaS Services | | WISE-PaaS/EnSaaS K8s Service<br>WISE-PaaS/EnSaaS DB Services<br>WISE-PaaS/EnSaaS IoT Hub<br>WISE-PaaS/DataHub<br>WISE-PaaS/Notification<br>WISE-PaaS/Dashboard<br>WISE-PaaS/SaaS Composer<br>WISE-PaaS/InsightAPM<br>WISE-PaaS/Microservice Framework<br>WISE-PaaS/AIFS with CPU Computing Resource<br>WISE-PaaS/OTA 2.0 | |
| IaaS Services | | OpenStack, support full function multitenancy, HA, Flexibility and elastic | |
| Computing Resources | | vCPU: 120 cores<br>Memory: 768 GB<br>Storage: 32TB | |
| Server Configuration in rack | | HCI node x (3)<br>Controller node x (3)<br>24 port 10GbE switch x (2)<br>Integrated in a rack | HCI node x (3)<br>Controller node x (3)<br>48 port 10GbE switch x (2)<br>Integrated in a rack |
| Power | Power Supply | 7KVA PDU | 11KVA PDU |
| | Input | AC 240 V, 32A | AC 350 V, 32A |
| | Consumption | MAX: 4950 Watt, Average: 1500 Watt | |
| Environment | Operating Temperature | 0 ~ 40 °C (32 ~ 104 °F) | |
| | Non-Operating Temperature | -20 ~ 60 °C (-40 ~ 140 °F) and 40 °C @ 5 ~ 95% RH Non-Condensing | |
| | Vibration Resistance | With SATA HDD: 0.5 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis | |
| | Shock Protection | With SATA HDD: 10G, IEC-60068-2-27, half sine, 11ms duration | |
| Mechanical | Dimensions (W x H x D) | 600 x 1990 x 1100 mm , 23.6 x 78.3 x 11.8 inch | |
| | Weight | About 171.8 kg | |
| Server Expansion slots (HCI node) | | 1 PCI-E Gen3 x16 (FH/FL) + 4 PCI-E Gen3 x8 (LP) + 1 PCI-E Gen3 x16 OCP 2.0 NIC | |
| OS Support in VM | | Linux (CentOS7.6, Ubuntu 18.4, etc.)<br>Windows Server | |



All product specifications are subject to change without notice.

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## Order Information

| Part Number | WISE-PaaS package | IaaS | Server | Switch | PDU |
|---|---|---|---|---|---|
| W-STACK300-R | Advanced | OpenStack | HCI node x (3)<br>Controller node x (3) | 24 port 10GbE x (2) | 240V, 32A, 7KVA PDU |
| W-STACK300-F | Advanced | OpenStack | HCI node x (3)<br>Controller node x (3) | 48 port 10GbE x (2) | 350V, 32A, 11KVA PDU |

## Accessories

| Part Number | Description |
|---|---|
| 36OSCBEL0001E1 | 1 year OpenStack service subscription package |
| 980GENCSS40 | WISE-PaaS technical support and consult |
| 980GENSTK00 | WISE-STACK related software services and support |

## Optional Accessories

| Part Number | Description |
|---|---|
| 980GWCSSI01 | 2 years AI Framework Service technical support subscription |