WISE-STACK 600

WISE-PaaS On-Premises Deployment with 10 Advantech Industrial Rackmount Servers (integrated in a rack)

Features

- Advanced computing and storage
- GPU accelerated AI training & inference
- Agile resource management
- IT self-service and IT backup support
- Foundation of heterogeneous IT integration
- WISE-PaaS/Dashboard
- WISE-PaaS/OTA
- WISE-PaaS/APM
- WISE-PaaS/AFS

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-STACK600-R
Form factor		42U rack
WISE-PaaS Services		WISE-PaaS/EnSaaS K8s Service WISE-PaaS/EnSaaS DB Services WISE-PaaS/EnSaaS IoT Hub WISE-PaaS/DataHub WISE-PaaS/Notification WISE-PaaS/Dashboard WISE-PaaS/SaaS Composer WISE-PaaS/InsightAPM WISE-PaaS/Microservice Framework WISE-PaaS/AIFS with Dedicated GPU Node WISE-PaaS/OTA 2.
IaaS Services		OpenStack, support full function multitenancy, HA, Flexibility and elastic
Computing Resources		vCPU: 240 cores Memory: 1.5 TB Storage: 64 TB
Server Configuration in rack		HCI node x (6) Controller node x (3) 48 port 10GbE switch x (2) Integrated in a rack
Power	Power Supply	11KVA PDU
	Input	AC 350 V, 32A
	Consumption	MAX: 9500 Watt, Average: 5000 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 320.3 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.) 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-STACK600-R	Advanced	OpenStack	HCI node x (6) Controller node x (3) AI node x (1)	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
980GWCSSI01	2 years AI Framework Service technical support subscription