Janus@Edge



Overview

Janus is a dedicated software and hardware system for onsite data management of equipment. It supports a variety of mainstream industrial communication protocols, can be accessed by simple configuration, and connects all kinds of different equipment on the site to the same platform. Moreover, it supports the same communication and scheduling between devices using different protocols to meet the real-time, agility, privacy and high availability of

device data processing. With the Janus system, device data is collected locally and does not have to be transmitted to the cloud in real time. Download the application and data analysis model from the cloud platform, and the data can be analyzed and applied on-site. The necessary data is regularly synchronized from the edge computing system to the industrial equipment IoT cloud platform. Then use massive data to optimize the model, and continue to return to the edge for execution after training. Edge computing extends the advantages of security, storage, computing, and artificial intelligence from the cloud to the edge. It is compatible with devices of different industrial protocols and data formats

through secure and fast access, and provides local computing services with low delay, low cost, high practicality and easy expansion. In addition, it combines with big data and learning model in Neptune to provide the best data application mode and create a trinity industrial Internet system (cloud platform, edge computing and device side) in the cloud.

Main Features

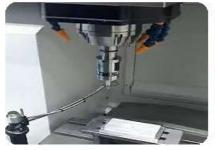
- Easy access: support multiple industrial protocols without additional development.
- Low cost: data does not need to be uploaded to the cloud in real time to save bandwidth traffic; data center does not need to be built to save construction cost.
- High responsiveness: data transfer and real-time judgment can be realized in the user's local network.
- High expansion: Provide platform API and development portal to facilitate integration with thirdparty systems or developers to develop applications directly on the platform.
- High integration: equipped with dedicated hardware according to usage scenarios, plug and play.
- High security: users can decide what data they need to connect to the cloud.
- Industrial data collection, processing, decision-making and visualization.
- Equipment expert system, equipment manufacturer customization, OEM.
- Information physical fusion system based on CPS framework design.

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Application

- Industrial Control: Smart welding and glass carving. Process optimization and quality control.
- Smart Factory: Equipment interconnection and automatic scheduling of production lines.
- Smart Mine: Remote monitoring and equipment safety management.
- Sewage Treatment: Intelligent monitoring and real-time data acquisition.
- Smart Agriculture: Plant factories, and aquaponics.
- Smart Building: Energy-saving and comfortable personalization.







Smart Welding

Glass Carving

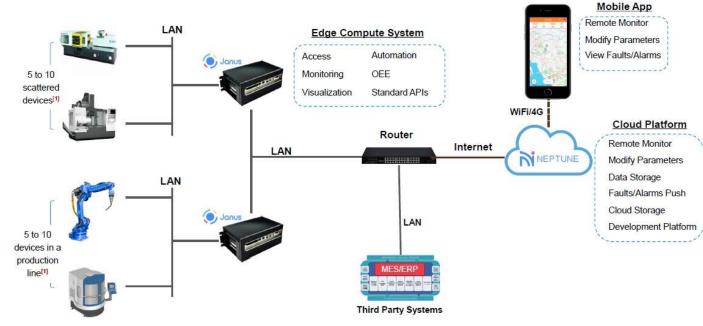
Smart Factory



Sewage Treatment

Smart Agriculture

Smart Building



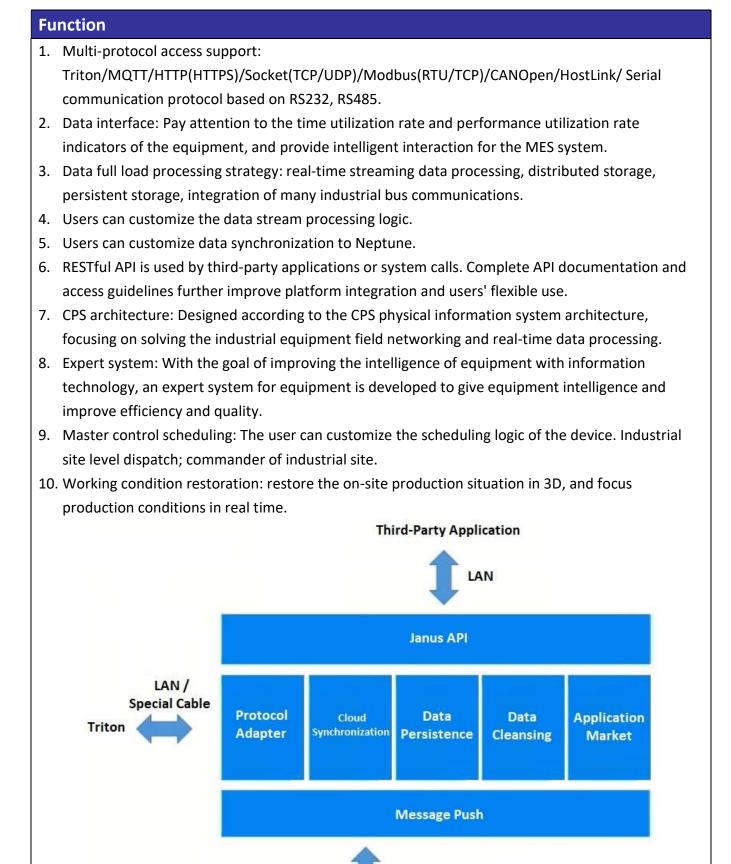
*1: Typically, 5 to 10 devices per edge compute node is recommended. Actual numbers may vary according to device data.

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All product specifications are subject to change without notice.

System Structure

Specifications



Internet

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Neptune

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Ordering Guide

Function	Ordering Number	Description
		 Hardware: Industrial computer CNV7704-01. Software: Janus edge computing & analytics.
		 A single set of Janus supports up to 500 devices concurrent data interaction.
Hardware +	Janus Edge	- Support data synchronization to Neptune cloud
Software	Computing System	platform (users need to have enough data space
		support in Neptune).
		- After Janus is registered and activated by Neptune,
		it does not depend on the Neptune cloud platform
		and can run independently.
User License		Device access authorization:
		- Every device connected to Janus or Neptune
	User License	requires a license.
		- It needs to be used with Janus edge computing
		system or Neptune cloud platform.
		- Duration of license: Permanent.
		- One device is connected to Janus and Neptune at
		the same time, only one license is needed.

Optional Item

Function	Ordering Number	Description
Cloud Platform Service	Neptune@Cloud	 Cloud platform storage pricing (calculated per GB per year): Provide user data access and usage services in the cloud. Provide device data remote monitoring and management tools. Provide system interface to support data exchange with third-party systems. No concurrent limit on the number of devices. Neptune cloud platform can be used in series with the Janus edge computing system, or it can be used separately.



Ordering Guide

Optional Item

Function	Ordering Number	Description
Software Custom Development Service		 Software development service (calculated per person per day): Customize Janus edge computing system or develop applications on Neptune cloud platform according to user needs (App). Determine the man-day workload required for development according to the content of the user's needs.
Hardware	CNV7704-01	Industrial computer: CNV7704-01 Configuration: i5/16G/512GB



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