iB
nexus

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iBOS®
nexus

"The digital backbone of your building. iBOS nexus integrates all systems into one secure hub."

What is iBOS nexus?

iBOS nexus is the secure edge gateway that enables the safe operation of smart applications within your building. It facilitates secure access to both old and new assets without exposing them to the internet. Once installed, iBOS nexus connects you to iBOS connect, a secure and adaptable hub for managing your building and portfolio.

Software – Secure and consistently updated

Operating System:

Our platform features an open-source OS (Yocto/OpenEmbedded Linux) designed to securely adapt to evolving needs. A robust CI/CD process ensures regular software updates, maintaining peak efficiency and security.

Hardware – Future-proof with a long technical lifespan

Robust and Versatile Industrial PC: Axiomtek ICO300 Our industrial PC is designed to withstand the demands of industrial environments, ensuring reliability and performance. It's compact yet powerful, making it ideal for a variety of applications.

Standard Power Supply: Accepts both 12-48VDC and 230VAC via an AC adapter, providing flexibility in power sources.

Power Efficiency: Operates efficiently with a power rating of 12VDC at 1.21A or 24VDC at 0.66A, optimizing energy usage.

Mounting Options: This can be mounted on a DIN rail using a standard 35mm clip or in a 19" rack with a 2U shelf, offering versatile installation options to fit different spaces.

Compact Dimensions: With dimensions of 155mm in height, 48mm in width, and 110mm in depth, this unit is designed to maximize space without sacrificing functionality.

Ethernet Ports: Features dual Ethernet ports with speeds of 10/100/1000 Mbps. Each port is isolated to separate LAN and WAN traffic, enhancing network security and performance.

Network - Designed for high security with minimal complexity

Secure and Flexible Network Connections: iBOS nexus is protected by a robust firewall that permits outgoing TCP connections over port 443, which is standard for secure web traffic. Using this secure channel, you can safely connect to any external IP address.

Special Access Needs: Besides the standard port, certain essential services require access over port 4445. This setup is designed to ensure that specific functionalities are accessible while maintaining overall network security.

Dynamic and Static IP Configuration: iBOS nexus automatically assigns IP addresses and configures DNS servers through a DHCP server, streamlining device connection process. While static IP configuration is possible, we recommend using the dynamic method for optimal performance and ease of maintenance.

Current Access Requirements: The following IP addresses are crucial for our operations and need to be accessible for seamless service: