EdificePlus

A secure, scalable and reliable server platform for connecting multiple and diverse devices and sub-systems.

EdificePlus seamlessly integrates with HVAC, lighting, energy, fire & smoke, and industrial automation systems while supporting multiple communication protocols. With built-in internet connectivity and browser-based access via Chrome, it enables efficient management of connected infrastructure while ensuring robust security and device management.

The platform provides integrated control, supervision, and monitoring capabilities, including data logging, alarm and event management, energy tracking, and historical data analysis. Its advanced HTML5-based visualization allows real-time data streaming with interactive charts and dashboards, accessible via Ethernet, wireless LAN, or remotely over the internet.

Features at a glance

Data Analytics

- In-built energy analytics and building scorecard shows Net Zero readiness

Energy Management

- Systematic monitoring, track and optimize utilities usage and consumption leads to decrease energy cost, reduce energy usage and carbon emissions

IAQ Monitoring & Control

- Pre-configured air quality parameters gives you assurance of occupant's well-being based on industry standards (WELL, LEED and RESET)

Fault Detection and Diagnostics

- Customized library of fault rules significantly reduces costs and improves operational efficiency
- Configure fault rules to anticipate equipment failures and inform about preventive measures

HVAC Monitoring and Control

- From basic monitoring and control to algorithm-based control helps to save more energy, occupant comfort and high productivity

User Management

- Supports role-based permission
- Comes with predefined roles
- Supports new user(s) to add
- Supports password protection and information security best practices in order to prevent unauthorized access

Historian

- Supports historization of data
- Historian configuration
- The multiple historian widget allows for the comparison of parameters across different equipment.

Event Management

- Alarm configuration and management
- List view with important attributes

User Interface

- Create project with network, space and equipment tree view
- Discover and register BACnet over IP and Modbus devices over TCP/IP and RTU network
- Detailed view of device and point object properties value
- Supports command and control

Cloud Connectivity (Optional)

- EdificePlus MQTT driver and its cloud agent supports easy integration with public clouds such as AWS (Amazon Web Services), Microsoft Azure & Cumulocity
- EdificePlus protocol drivers and APIs can easily integrate with operational based enterprise systems
- Support data interoperability with other applications

Interested to know more about EdificePlus?
Email us at info@edificedx.ai or visit us at www.edificedx.ai

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EdificePlus

System

CPU	Intel® Atom® X5-E3930
TDP	6.5 W
# of cores	2
Base Freq.	1.3GHz
Max Turbo Freq.	1.8 GHz
Memory	1 x SO-DIMM, DDR3L 1600 MHz supports up to 4GB

External Interfaces

Display	1 x HDMI 1.4, supports up to 3840 x 2160 @ 30 Hz 1 x DP 1.2a, supports up to 4096 x 2160 @ 60 Hz
Ethernet	2 x 10/100/1000 Mbps, RJ45 (2 x Intel i210IT (1Gb)
COM	2 x COM: RS-232/422/485, DB9
USB	4 x USB 3.2 Gen 1, type A 2 x USB 2.0, type A (optional)

Design

Compact size with fanless Design | Robust and cableless design with high stability

Connectivity Support

BACnet, Modbus

Storage

M.2 2242 M-key Socket 64 G M2

Power

Power Input 12 to 24 V DC, 2 pin terminal block

Safety

UL, CB, CCC, BSMI, CE

Security

TPM v2.0 powered by NuvotonNCPT 750 (Optional)

Interface

4G LTE, Wi-Fi (Optional)

Operating System

Ubuntu server 20.04

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