



SBS JACE 8N4

OPEN BUILDING AUTOMATION

AUTOMATIONS- UND INTEGRATIONSPLATTFORM

Compact, embedded IoT (Internet of Things) controller and server platform for room and building automation for heating, ventilation and air-conditioning systems, energy management and room automation solutions.

With our SBS series we offer IoT solutions and services that go far beyond the usual room and building automation.

→ www.openautomationsystems.store

IoT Solutions and Services
for Smart Automation





Smart Building Solutions

SBS JACE 8N4 is an open and high-performance automation and integration platform from OAS Open Automation Systems Ltd (powered by Niagara Framework®). The consistent application of this technology reduces the energy and operating costs. Based on the Niagara Framework® N4, all building technology systems and systems are homogeneously merged into a building automation and management system. The consistent networking of all systems and applications of a property or individual buildings enables open, digital consistency for integration.

Our automation solutions are systematically networked on the basis of standardized Internet technologies. From the lowest field level via the automation level with the local visualization (HMI) to the on-site management level or as a cloud or portal solution. This digital consistency with standardized communication protocols allows you a secure and seamless connection with open management systems as well as the integration into the information technologies and the ERP systems of the customer.

Advantages:

- Significant increase in energy efficiency
 - Optimized energy use due to the perfect coordination of space requirements and HVAC system control
 - Integrated room management for the regulation of temperature, lighting and shading
- Easy extension, modernization and conversion of rooms.
- Secure building operation includes access control and associated time recording, video surveillance for an area as well as fire and burglar alarm systems

A modular approach for global design

Efficient global design

The new, modular design of the SBS JACE 8N4 controller makes it easy to install, integrate and deploy. Tool-less installation with expansion capability reduces installation complexity and improves flexibility. Systems integrators can focus on engineering solutions, not assembling components. And their lives will be simplified with a global power supply and improved access to standard enclosures.

Wireless capability

Standard Wi-Fi offers enhanced wireless capability when interfacing with the next generation of wireless sensors and devices. The SBS JACE 8N4 controller also is configurable as an access point so that mobile phones and tablets can display information and advanced graphics. Expansion also is available when interfacing with other wireless fieldbuses seen in connected buildings.

Optimized for Niagara 4

The SBS JACE 8N4 controller leverages the exciting new features of Niagara 4. It adds to the enhanced user experience, maximizing Niagara 4's key advantages: pure Web interface based on HTML 5 with HTML 5 views, charting and data visualization, a common design language, better reporting, robust security and improved device management.

Global capacity licensing and upgrade capability

Determine the number of devices that will be integrated and select the right capacity license from the start. License upgrades can be purchased in the future as your needs grow.

powered by
niagara
framework®

Modular hardware design for fast and easy installation

Controller and option modules are designed for easy mounting on a 35mm-wide DIN rail.

Expandable with up to four option modules

Option modules are connected directly to the controller for additional communication ports, including types for LonWorks®, RS232 and RS485 networks.

Power supply

24VAC/DC —standard global power supply

Diagnose network issues

Users can easily check system status by glancing at the front panel LEDs to diagnose network issues.

Connectivity Profiles

- Native Wi-Fi capability (WAP or Client) A, B, G or N networks
- Two 10/100Mb Ethernet ports
- Two isolated RS 485 ports
- Optional LO N FTT10 & RS 232 expansion

AMEV certified BACnet device

The SBS-JACE 8N4 (Tridium JACE 8000) meets the special requirements of the public sector for independent building automation with the AMEV certificate and the BACnet conformity certificates. In conjunction with the BLT certificate of the BACnet Testing Labs (BTL), the test certificate is also valid as proof of BACnet conformity (ISO 16484-5).



Technical Data

Hardware specifications

- TI AM3352: 1000MHz ARM® Cortex™-A8
- 1GB DDR3 SDRAM
- Removable micro-SD card with 4GB flash total storage /2GB user storage
- Wi-Fi (Client or WAP)
 - IEEE802.11a/b/g/n
 - IEEE802.11n HT20 @ 2.4GHz
 - IEEE802.11n HT20/HT40 @ 5GHz
 - Configurable radio (Off, WAP, or Client)
 - WPAPSK/WPA2PSK supported
- USB type A connector
- Back-up and restore support
- (2) isolated RS-485 with selectable bias and termination
- (2) 10/100MB Ethernet ports
- Secure boot
- Supply requirements:
 - 24VAC rated at 24VA minimum, or
 - 24VDC rated at 1A (24W) minimum
- Runs Niagara AX: 3.8u1 and later
- Runs Niagara 4: 4.1 and later
- Niagara Analytics 1.1 requires Niagara AX 3.8u1 or later update builds
- Niagara Analytics 2.1 is compatible with Niagara 4.4 and 4.6
- Real-time clock
- Batteryless

Agency Certifications

- UL 916
- CE EN 61326-1
- RCM
- FCC Part 15 Subpart B, Class B
- FCC Part 15 Subpart C
- C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment"
- 1999/5/EC R&TTE Directive
- CCC
- SRRC
- RSS
- RoHS

Environmental specifications

- Operating temperature: -20–60°C
- Storage temperature: -40–85°C
- Humidity: 5%–95% — Non condensing
- Shipping & vibration: ASTM D4169, Assurance Level II
- MTTF: 10 years+

Contact sales@oa-systems.de for the latest information or visit our homepage www.oa-systems.de



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Data link layer options

- BACnet IP (Annex J)
- BACnet MS/TP master
- MS/TP baud rates:
 - 9600, 19200, 38400, 57600, 78600, 115200

Static device binding

- Yes (for MS/TP only)

Networking options

- BBMD
- Router, Medium: BACnet/IP - MS/TP
- Reg. by foreign device

Character set

- UTF-8

Reporting options

- Intrinsic Reporting
- Algorithmic Reporting

The device supports BACnet functions as per AMEV profile:

- AMEV profile AS-B (Automation station, extended version)

Niagara 4

Niagara 4 is more independent of browser plug-ins, faster and easier to use. As an open framework, Niagara 4 offers a host of notable enhancements to enable companies to fully leverage the Internet of Things - including advanced visualization and new search, security and navigation tools. Niagara 4.4 with Analytics is the latest version of Tridium's flagship IoT software platform.

An all-new user interface

Niagara 4 features a bold and intuitive new interface. Modern and easy to use, the platform utilizes HTML5 to provide an array of rich features. Our powerful new UI framework makes the user experience simpler and more robust, giving users maximum control of their data and decisions.

More data at your fingertips

Users can easily conduct a station-wide search of the most important elements in their operation. With a simple point-and-click or drag-and-drop, users can create customized charts, allowing them to instantly find and display critical information from their desktop, tablet or mobile device. Systems integrators no longer necessarily need to re-engineer new dashboards each time a customer requirement changes.

Powerful security

Niagara 4 takes a "defense-in-depth" approach to Internet of Things security. Building on the security of previous Niagara versions, Niagara 4 is secure by default. Authentication requires users to choose strong credentials, and both data in motion and sensitive data at rest are encrypted. Niagara 4 also uses Role-Based Access Control (RBAC), making user permissions easy to configure and less error-prone. All user actions and security-related events are recorded in Niagara's audit log for traceability.



Ordering information

Part number	Description
OAS-JACE8NW01-0100	OAS IoT- Integration platform SBS JACE 8N4 100 data points, without WiFi.
OAS-JACE8NW01-0250	OAS IoT- Integration platform SBS JACE 8N4 250 data points, without WiFi
OAS-JACE8NW01-0500	OAS IoT- Integrationsplattform SBS JACE 8N4 500 data points, without WiFi

IoT Solutions and Services for Smart Automation

Individual solutions for intelligent buildings / smart building solutions - we offer you everything you need for this. From the automation and control technology of your lighting and facade control to the automation of the heating, ventilation and air conditioning system, we offer you both individual components and standardized and proven SBS complete solutions.



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TRIDIUM authorised distributor



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