

# JACE®-5T Site Manager™

## Enhanced Alarm & Monitoring Solutions for Telecom Environments

### Overview

Today's telecommunication operations and data centers operate with a complex array of systems that are critical. Remotely monitoring and checking the status of these systems in both manned and unmanned facilities is crucial in managing their uptime.

Designed specifically for today's carriers and service providers, Tridium's JACE-5T Site Manager is a single-box, all-in-one solution that provides all the necessary capabilities and functions for end-to-end delivery of remote monitoring, alarming, interoperability and integration in a single solution.



Built using the Niagara Framework® and NEBS compliant, the JACE-5T Site Manager is an enhanced, Web-based management system that monitors temperature, humidity, power, fuel systems, digital contact panels and all HVAC systems. Users can seamlessly integrate LonWorks®, BACnet®, Modbus®, SNMP and other standard protocols with legacy systems to provide a unified real-time controls network that can be controlled from the enterprise. The suite includes a browser-based graphical user interface allowing users to view and manipulate underlying systems without the need for dedicated workstations or client software.

The JACE-5T Site Manager provides the ability to create a customized user interface that combines intuitive navigation screens with dynamic, real-time displays. Third party graphic images, jpegs, and gif images can also be used in the creation of the user interface. Unique software technology eliminates the need for page refreshes or polling for data updates, thereby minimizing required bandwidth.

Whether local or geographically dispersed locations, the JACE-5T Site Manager is a hardware and software platform that is easily installed in most any environment. The JACE-5T Site Manager connects to system field busses and provides real-time control functions as constant streams of data from individual systems are instantaneously transformed to a common object model within the JACE-5T Site Manager. JACE-5T Site Managers provide a fully distributed system when multiple units are networked together, which provides unsurpassed scalability and reliability. In this configuration, the Web Supervisor® (or Enterprise Server) can be used to network JACE-5T Site Managers and manage enterprise-level control functions. The appropriate JACE-5T Site Manager model is determined by connectivity requirements.

### Applications

Specifically designed for central offices, outside plants, Regen Huts, transport sites and data center environments, mechanical rooms and harsh environments, the JACE-5T Site Manager is ideally suited for users who require a rugged and compact controller that can be wall or enclosure mounted.

The JACE-5T Site Manager controller can be used to support a network of BACnet and LonWorks devices that can be accessed directly over the Ethernet LAN or remotely over the Internet.

On larger buildings or multi-building complexes and large-scale control system integrations, the Web Supervisor® (Enterprise Server) in conjunction with one or more JACE-5T Site Manager controllers manage global control functions, support data passing over multiple networks, and host multiple, simultaneous client workstations connected over the local network, the Internet, or dial-up modem access.

## Features

- Embedded RISC Microprocessor platform
- Distributes real-time control functions across an Ethernet LAN
- Cost effective for any size installation
- Multiple JACE-5T Site Managers can be used in a large-scale, enterprise system
- Run stand-alone applications within the JACE-5T Site Manager controllers
- Can be configured with Web User Interface services to support many simultaneous users over Intranet or Internet via standard web browser (JACE-5T Site Manager-UI)
- Easy to install
- SQL Data Archiving with the use of AX Supervisor
- SSL Encryption
- Supports a range of protocols

SNMP	PPI	LON	TABS	BACnet
TL1	MODBUS RTU	GCS	MODBUS TCP	MCSGCS
MCS	VEEDERROOT	XML	HTTP	

## Ordering Information

### JACE-5T Site Manager™

Unit includes one LonWorks Interface, one 10/100 MB Ethernet Network Interface, two RS-232 and four RS-485 (isolated) ports.

## Specifications

### Platform

- Motorola RISC Processor @ 250 MHz.
- Integrated floating point processor.
- 128 MB RAM.
- 32 MB Flash for Database backup
- Flash for OS and System Modules.
- Real-time clock.

### Communications

- One 10/100 MB Ethernet port - RJ 45 connection.
- One LonWorks™ port - FTT-10 with Weidmuller connector.
- Two RS-232 ports.
- Four RS-485 (isolated) ports.

### Operating System

- Wind River VxWorks™ Operating System with Jeode™ Java Virtual Machine.
- JACE-5T Site Manager™ (Control Engine) Software - with BACnet™ and LonWorks™ support.

### Power Supply

- Input voltage: Dual -48VDC feeds.
- Input power: 13 W max. 10 W typical.

### Chassis

- Construction: Heavy-duty steel chassis.
- Cooling: Internal air convection.
- Dimensions: 12x17x1.75 19" 1 RU rack mountable platform. The unit is suitable for wall mounting for locations with minimal space or no racks.
- Gross Weight: 8 lbs.

### Environment

- Operating temperature range: 0° to 50°C (32°F to 122°F).
- Storage Temperature range: 0° to 70°C (32°F to 158°F).
- Relative humidity range: 5% to 95%, non-condensing.

### Agency Listings

- NEBS Level 1 (GR-1089-CORE, GR-63-CORE)
- UL 61010-1
- CSA (Canadian Standards C22.2 no. 61010-1)
- CE: European EMC Directive
- FCC part 15 Class A

[www.tridium.com](http://www.tridium.com)

### Tridium, Inc.

3951 Westerre Parkway, Suite 350  
 Richmond, VA 23233 USA  
 1.804.747.4771 Phone  
 1.804.747.5204 Fax