ASPECT®

Nexus™

DESCRIPTION

Through the use of AAM's Facilitating Technology (FT), AspectFT-Nexus can be used to communicate with serial networks populated with field bus devices communicating on protocols such as BACnet® MS/TP, AAM PUP, and even Modbus®. Support for Modbus TCP, and legacy SageMAX SDP Protocol are also available with AspectFT.

The AspectFT-Nexus provides all the same powerful features as any AspectFT enabled product; alarming, trending, extensive custom programming and many of the features that have made AAM's framework a recognized award-winning platform. In addition, it integrates with popular Internet programs to allow end-users more freedom. With AspectFT, your PC and smart devices can integrate with your building easily and efficiently.

FEATURES & OVERVIEW

HARDWARE SPECIFICATIONS

Intel® Atom
Dual Core CPU @ 1.66 GHz
2 GB RAM
64 GB SSD

COMMUNUCATIONS

10/100/1000 MB Ethernet port
Two EIA-485 ports

Switch selectable termination and biasing
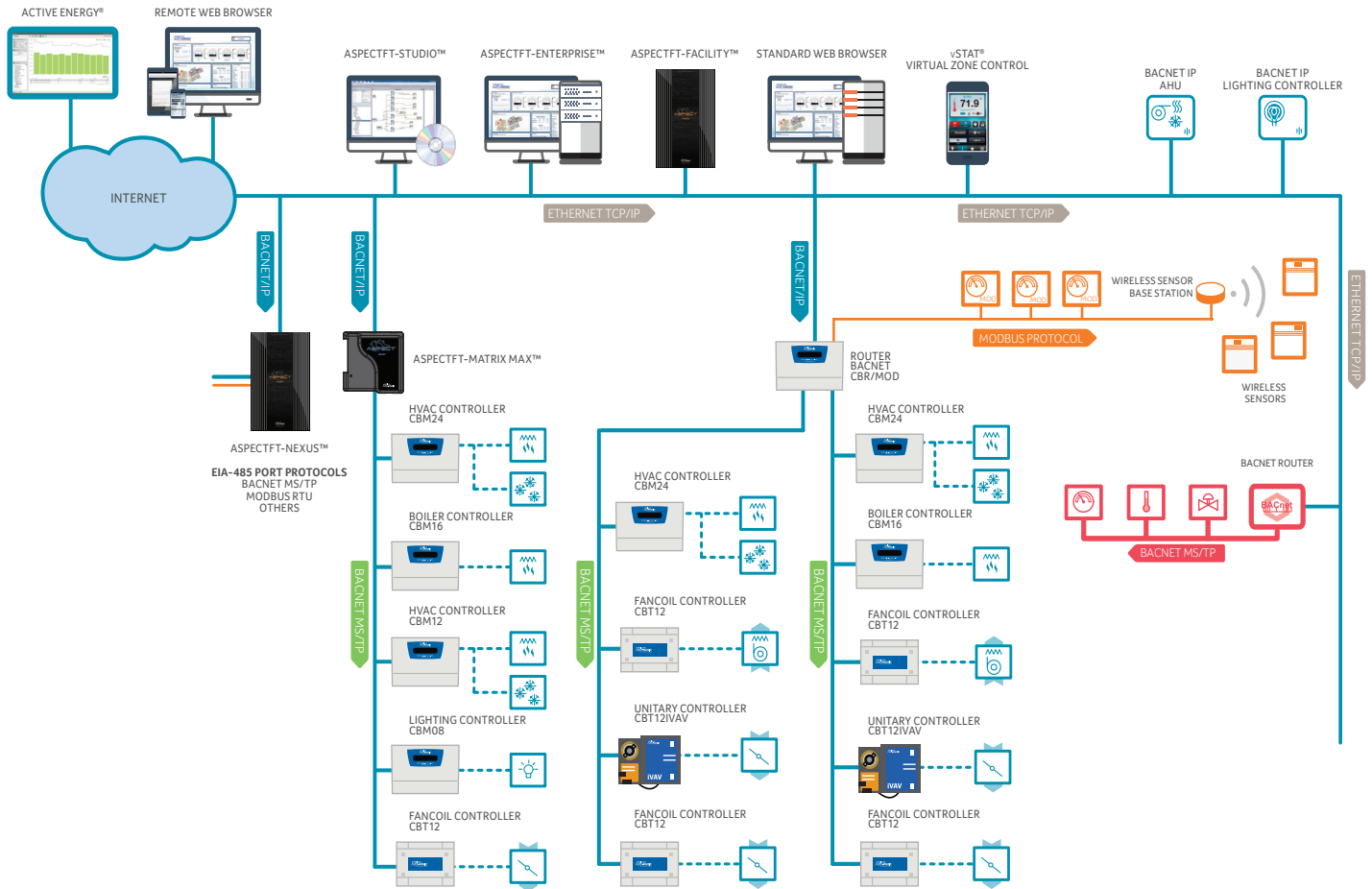protocol selectable & configurable via software

OPERATING SYSTEM

Embedded Linux OS
Java™ Virtual Machine (JVM)
AspectFT Runtime Engine

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- **Centralized System Management**
  Provides the ability to manage an entire facility of products by acting as a centralized server providing web, data, and other building information from one single entry point

- **Integrated MySQL® Database Server**
  Used to store all historic data as well as provide third-party interfaces with data from the building automation system without the need for special add-on protocol drivers

- **Receive Important Building Information**
  AspectFT utilizes everyday web technologies, including email, Twitter®, and common Internet protocols, to provide the end-user more freedom

- **HTML5 Integration**
  The HTML5 interface is created automatically with no additional effort required. This intuitive HTML5 interface automatically scales to the PCs, smart phones, tablets, and other mobile devices you use every day

- **HTML5 & Java-Based GUI**
  Site data easily is accessible from all standard web browsers and does not require proprietary software plug-ins

- **Comprehensive User/Group Security**
  Restrict or allow access to myriad of points based on individual or group credentials

- **AspectFT Supervisory Control Engine**
  Supervisory-based control functions including but not limited to energy management routines, custom sequencing, alarm and event annunciation, historical alarming and trending, and master control scheduling

- **Schedule & Calendar Implementation**
  Interact with iCalendar format tools such as Microsoft® Outlook® 2007, iCal®, Google Calendar™ and other popular programs
  (maximum of 10 schedules)

- **SDP Driver**
  Integrates with American Auto-Matrix SageMAX legacy control devices
  (applies to SageMAX IP devices only)

- **Secure System Platform**
  Utilizing a secure and reliable Linux OS foundation – eliminating the need to maintain or implement security policies (virus scan, firewall, etc.)

- **USB Modem Connectivity**
  For sites that do not have, or do not allow Internet connection, a USB modem can be utilized for communication

SPECIFICATIONS

Ethernet Network
Termination Count: 2 connections (2nd port for future use only)
Connection Type: RJ-45 female
Speed: 10/100/1000 MB auto-sensing

EIA-485
Connection Type: 2 position
Termination Count: model dependent - up to 2 connections
Baud Rates: 9.6, 19.2, 38.4, 57.6, 76.8, 115.2 (kbps)
Termination: 249 Ohm, switch selectable
Biasing: 510 Ohm, switch selectable
LED: indication for TXD, RXD
Protocol: license enforced, driver selectable
Network Load: license enforced, up to 64 devices per port

Power Requirements
Power Source: 24 VAC, 50/60 Hz, 3.5 A max , 2 position

Setup & Configuration
Software: AspectFT-Studio™ w/ USB copy protection key & license file
Browser: Standard web browsers that support HTML5 include :
Internet Explorer 8/9/10, Firefox, Opera 12, Safari 6, and Google Chrome

Operating Conditions
Operating Temperature: 50˚ F to 104˚ F (10˚ C to 40˚ C)
Operating Humidity 0 to 80% non-condensing

Dimensions/Mounting
Dimensions: 12.9" x 8.3" x 4.0" / 7.5 lbs / wall mount

Agency Approvals
CE Approved
FCC, Class A Computing Device; Part 15
UL/cUL Listed, Open Energy Management (PAZX/PAZX7), E95642

Part Numbers
ASPECT-NEX-DPO: AspectFT-Nexus Server with up to 32 devices per port (64 total)
ASPECT-NEX-DPO-UPGR: Field Upgrade from 32 devices/port to 64 (128 total)
ASPECT-NEX-DPX: AspectFT-Nexus Server with up to 64 devices per port (128 total)
ASPECT-NEX-BAC-ADD: Increases max BACnet MS/TP devices by 64[†], BACnet IP by 5
ASPECT-NEX-PUP-ADD: Increases max PUP devices by 64[†]
ASPECT-NEX-MOD-ADD: Increases max Modbus IP devices by 5

[†] not a port expansion
*Please refer to the AAM Pricelist for complete details on licensing & product information

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