SMART one™

Smart Controls for Smart Buildings™

Be the SmartOne

The SmartOne™ line of Application Specific Controllers combines the power and openness of BACnet and BTL listing with the flexibility of distribution availability. These robust high-speed controllers support all standard BACnet baud rates and come in a variety of flavors including Rooftop, Heatpump, Fancoil, and VAV. Programming is accomplished through the SmartOne Commissioning Wizard, a program that takes the guessing out of the equation by using a series of intuitive steps to guide you through the commissioning process. In addition, configuration can be accomplished through serial or IP communication. With control like this you can be the SmartOne.

SMT-ASCRT Rooftop Controller

The SmartOne Rooftop Controller is a BTL-listed application specific controller designed for use with packaged rooftop units. The SmartOne Rooftop Controller can be used in multiple application scenarios for heating and/or cooling.

SMT-ASCHP Heatpump Controller

The SmartOne Heatpump Controller provides standard heat pump operation utilizing zone temperature control with optional, integrated outside air and discharge air management capabilities. The Heatpump Controller has Universal Input and Static Output assignments for fan, reversing valve, and heating/cooling stages for simple installation and configuration.

SMT-ASCFC Fancoil Controller

The SmartOne Fancoil Controller provides standard fancoil operation using zone temperature control with optional, integrated outside air temperature and supply temperature mixing. The unit can also control a single speed or multi-speed (3 speeds max) fan, support stages of electric reheat, as well as valve control for additional heating and cooling changeover options.

SMT-ASCVT VAV TRIAC / SMT-ASCVR VAV RELAY

The SmartOne VAV is a multi-functional variable air volume (VAV) and constant air volume (CAV) terminal box controller designed to provide standard and advanced VAV control routines. As fully compliant Native BACnet devices, these controllers include an integrated air flow sensor, 5 binary outputs (available in relay or triac form), a dedicated Zone Temperature input bus, auxillary Universal Inputs, and an Analog Output for PID applications.

SmartOne Configuration Wizard

The SmartOne Configuration Wizard is a Windows®-based application utilized to setup, and configure SmartOne devices. Through use of this tool, users can rapidly configure devices in both online and offline manners using intuitive wizards, expert tools, as well as other standard features included with the application.

SMT-LINK

The SMT-Link is a communication tool that provides a direct connection to BACnet MS/TP networks using the SmartOne Configuration Wizard. This device can be used with networks that do not have a router capable of communicating MS/TP to IP. The SMT-Link can communicate to small, stand-alone installations and large networks. Unlike third-party adapters, this communication device provides an Ethernet link free of data loss. This connection provides reliable communication with the BACnet MS/TP's time-sensitive protocol requirements and resolves potential network connection error issues.
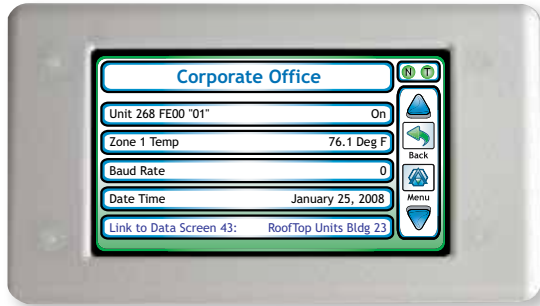
MATRIX-BBO Router

The Matrix-BBO is a BTL-listed MS/TP to IP compliant network router, providing users with connectivity to SmartOne devices over IP local networks, wide area networks, and even the Internet when properly configured. The device has one on-board RS-485 port that is configurable and capable of hosting up to 64 SmartOne devices. This router also provides support for all standard BACnet baud rates, routing to BACnet/IP or BACnet/Ethernet, and can even act as a BBMD and Foreign Device registrar. Using any standard web browser to access the device, setup and configuration can be accomplished through entering a password protected web-server.

BBC-SD Touch Screen Interface

Corporate Office

Unit 268 FE00 "01"	On
Zone 1 Temp	76.1 Deg F
Baud Rate	0
Date Time	January 25, 2008
Link to Data Screen 43:	RoofTop Units Bldg 23

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Menu

The BBC-SD is a BACnet MS/TP-based touch-screen interface providing local display information for BACnet-based building automation systems. Through utilization of the intuitive graphical interface, building owners and tenants can navigate through the local display to learn more about working variables such as temperatures, set-points, schedule parameters, alarm data and much more. The BBC-SD can integrate with systems of any size as well as interact and display information from any BACnet device regardless of manufacturer or vendor. Never before has there been such an innovative design in an affordable package.

SBC-STATs

SBC-STAT-1D

American Auto-Matrix's SBC-STAT's are ergonomically designed, two-wire polarity insensitive "smart" sensors. Designed in multiple variations to ensure the flexibility you need to monitor zone temperature, the SBC-STAT can modify set-points, and control parameters. American Auto-Matrix believes in providing superior products that offer quality coupled with easy to understand solutions that help reduce installation cost and time. That is why our STATs are designed smart.
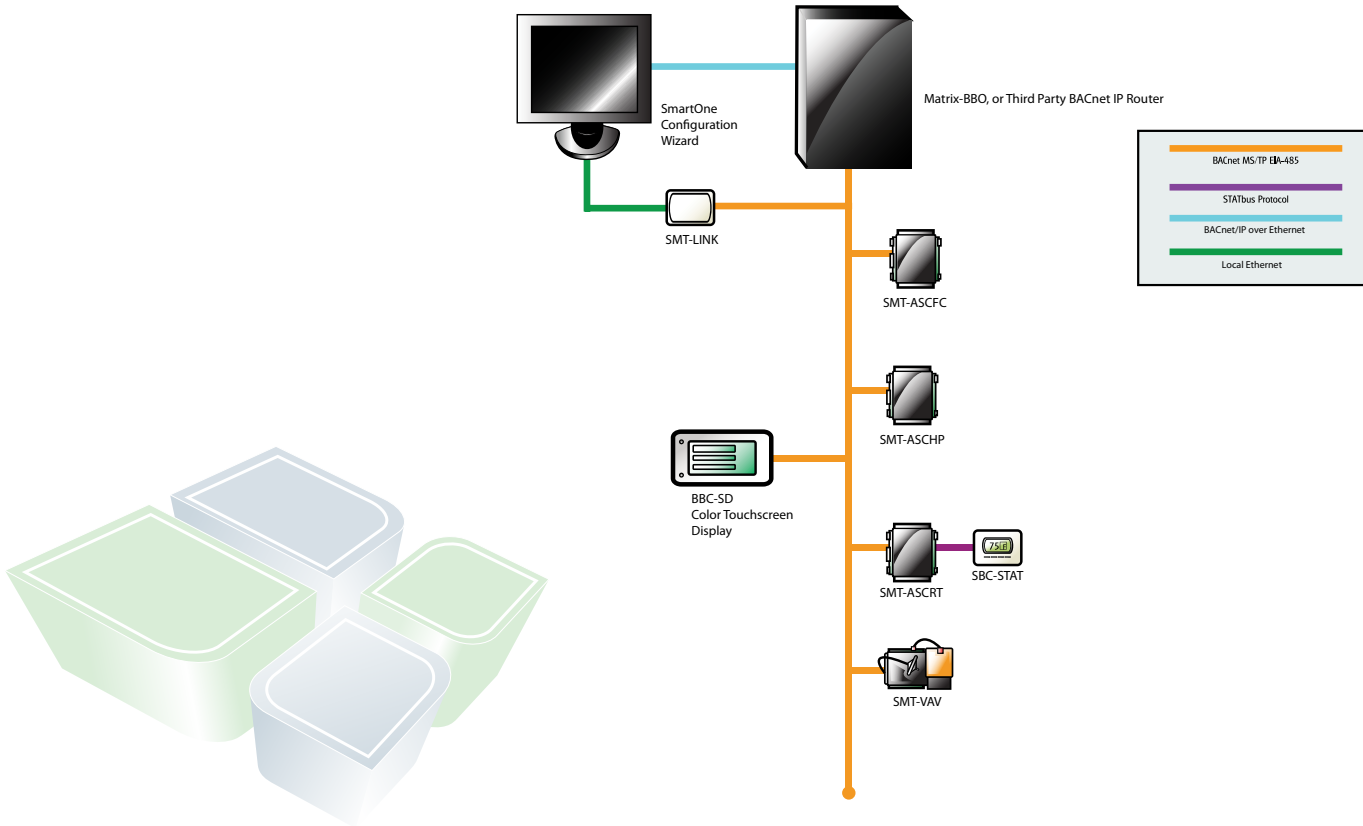

SBC-STAT-3

System Architecture

SmartOne
Configuration
Wizard

Matrix-BBO, or Third Party BACnet IP Router

SMT-LINK

SMT-ASCFC

SMT-ASCHP

BBC-SD
Color Touchscreen
Display

SMT-ASCRT

SBC-STAT

SMT-VAV

BACnet MS/TP EIA-485	
STATbus Protocol	
BACnet/IP over Ethernet	
Local Ethernet	

Who Is American Auto-Matrix ?

Founded in 1979, American Auto-Matrix (AAM) develops and manufactures a complete family of microprocessor-based, applied, networkable controllers. AAM products are used in a broad range of applications including facilities management, building automation, temperature control, direct digital control (DDC), process control, and integrated fire, security, and life safety management. AAM was the first to offer open architecture, generation-to-generation compatibility, DDC, and object-oriented programming.

Through the years American Auto-Matrix has positioned itself as a worldwide leader in providing "Smart Building Solutions"®. AAM provides solutions for HVAC, Access, Lighting, Light Process and Laboratory and Fume Hood control as well as unparalleled support, service and training facilities.

In December 2002, American Auto-Matrix was purchased by Jordan Acquisition Group, LLC, a group of private U.S. Investors. In 2006, the company officially became a Service Disabled Veteran Owned Small Business/Woman Owned Business (SDVOSB/WOB), opening more opportunities for growth and strategic development to an already expanding American owned company.

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SMART BUILDING SOLUTIONS®

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