

AMERICAN AUTO-MATRIX® NB-ASC(e) Application Selectable Controller

DESCRIPTION

The NB-ASC(e) is an applicable selectable controller able to be employed in generic and light-duty custom control applications using one of three available modes (Rooftop, Heatpump, and Multi-Speed Fancoil). In stand-alone or networked environments, the NB-ASC(e) can be programmed to operate on independent platforms or in existing enterprise applications. Using flash technology, NB-ASC(e) controllers can be configured and setup with minimal effort for a variety of control application sequences. This product is BTL listed as a B-ASC (BACnet - Application Specific Controller).

FEATURES

- BACnet MS/TP network protocol
- BTL listed as B-ASC
- Can be field-flash configured for Rooftop, Heatpump, or Multi-speed Fancoil profile applications
- Can be used in stand-alone or network applications
- Zone temperature input with 15-bit resolution
- Available on-board Digital Input for Pulse application
- Outside Air Temperature based Economizer control available
- Dedicated (separate from on-board I/O) Zone Sensor Input connection for NB-STATs via Statbus
- Configurable Interlocking for Fan Failure applications
- Flash memory for easy updates
- Real-time clock included with NB-ASCe devices (ASC optional)
- Time-of-day scheduling
- Available PID and Control Loop applications for output control sequences such as valve control and analog signal control
- Although application specific, these devices can be implemented in sequences that may not require Discharge Air Temperature (DAT) or Outside Air Temperature (OAT) readings



Unique Programming Capabilities



Unique programming in the ASC(e) allows users to modify the controller for several pre-configured applications. Using flash memory updates, the controller can be configured for typical heat pump, multi-speed fan coil, or rooftop unit installations.

Native Series NB-ASC(e) Unitary Controllers

Controller Type	Digital Outputs		Analog Outputs	Universal Inputs	Real-Time Clock	Optically Isolated DI	SBC-STAT Bus
	Triacs	Relays					
NB-ASC	NONE	5	2	2	OPTIONAL*	NONE	1
NB-ASCe	NONE	5	4	5	INSTALLED	1	1

* The Real-time Clock (SBC-RTC2) must be purchased separately and installed by the customer.

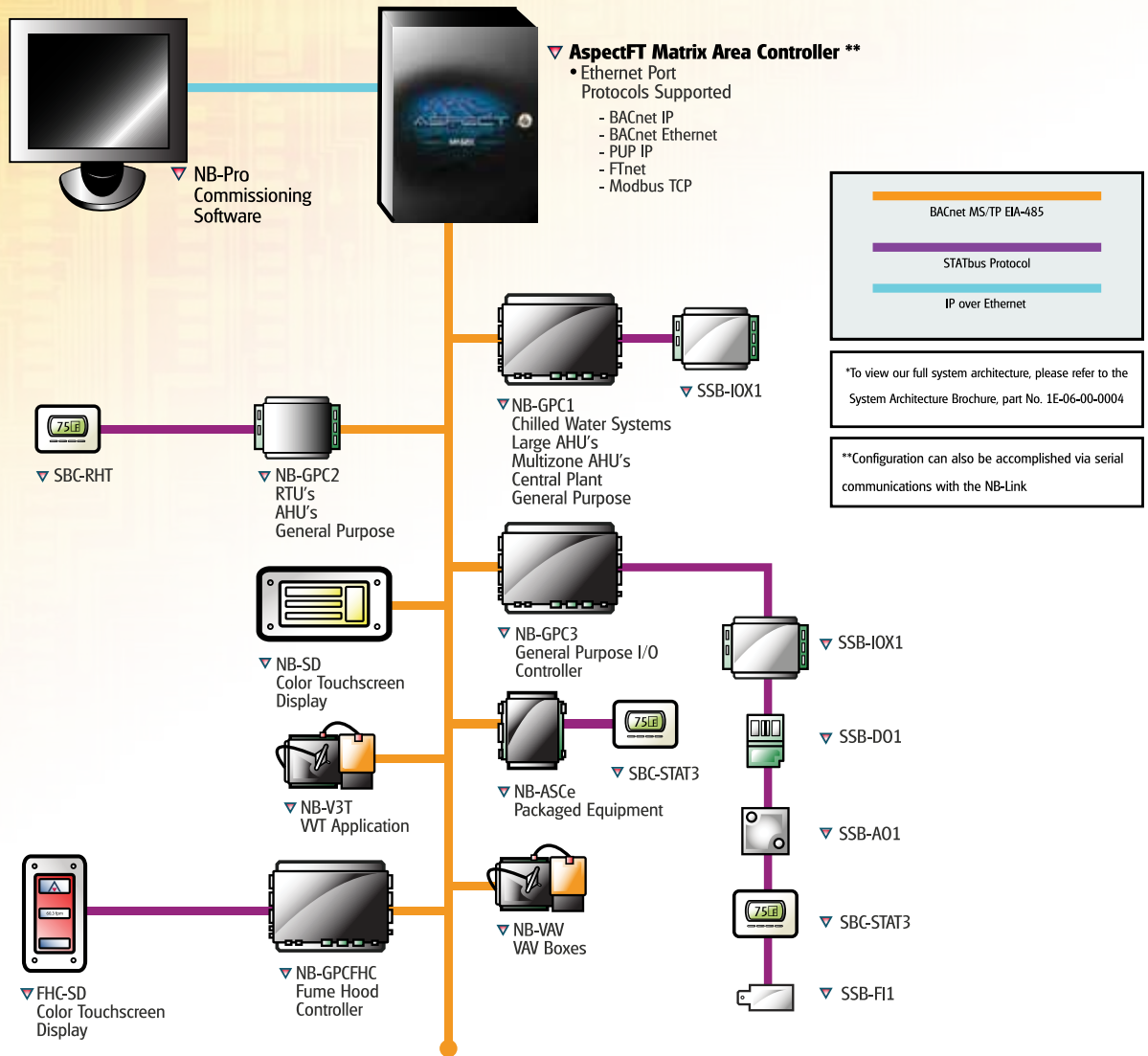
NB-ASC(e)

Application Selectable Controller

AMERICAN
AUTO-MATRIX®
SMART BUILDING SOLUTIONS®

AMERICAN AUTO-MATRIX® NB-ASC(e) Application Selectable Controller

CONFIGURATION ARCHITECTURE



SPECIFICATIONS - NB-ASC(e)

Terminations

- Pluggable terminal blocks for inputs, outputs, power, and network connection
- Communication baud rates: 9.6, 19.2, 38.4, 57.6, 76.8 kbps

Dimensions

- Overall size: 5.5 x 3.75 x .90 in. (14.1 x 9.5 x 2.3 cm.)
- Shipping weight: .84 lbs. (.38 kg.)

Processor

- High-Speed 16-bit processor

Input Supply

- NEC class II transformer
- 24VAC, 50/60 Hz, 10VA maximum, 5VA typical
- 5A fuse load protection

Operating Environment

- Operating temperature: 41 to 151°F (5 to 50°C)
- Storage temperature: -40 to 151°F (-40 to 66°C)
- Relative humidity: 10% to 90% noncondensing, 40% to 60% recommended

Agency Listings

- UL 916 listed, PAZX
- FCC rules Part 15, Class B Computing Device
- UL 873 recognized, Component-temperature-indicating and regulating equipment (XAPX2)
- Complies with CE directives and standards

American Auto-Matrix is a Service-Disabled Veteran-Owned Small Business / Woman-Owned Business (CCR Cage #4LL80)

One Technology Lane Export, Pennsylvania 15632-8903 U.S.A. Tel (1) 877-AAM-HVAC Fax (1) 724-327-6124

Email: aam@aamatrix.com On the Web: www.aamatrix.com

