



SMART[™]
One

MATRIX-BBO BACnet 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 the product's password protected web-server.

FEATURES

- Connects BACnet networks running over different datalink layers
- Full Annex J support including BBMD and foreign device registration
- Intuitive web browser-based configuration
- One (1) 10/100 Base-T Ethernet port
- One (1) EIA-485 port
- SmartOne devices can be programmed with SmartOne Configuration Wizard over IP through this device

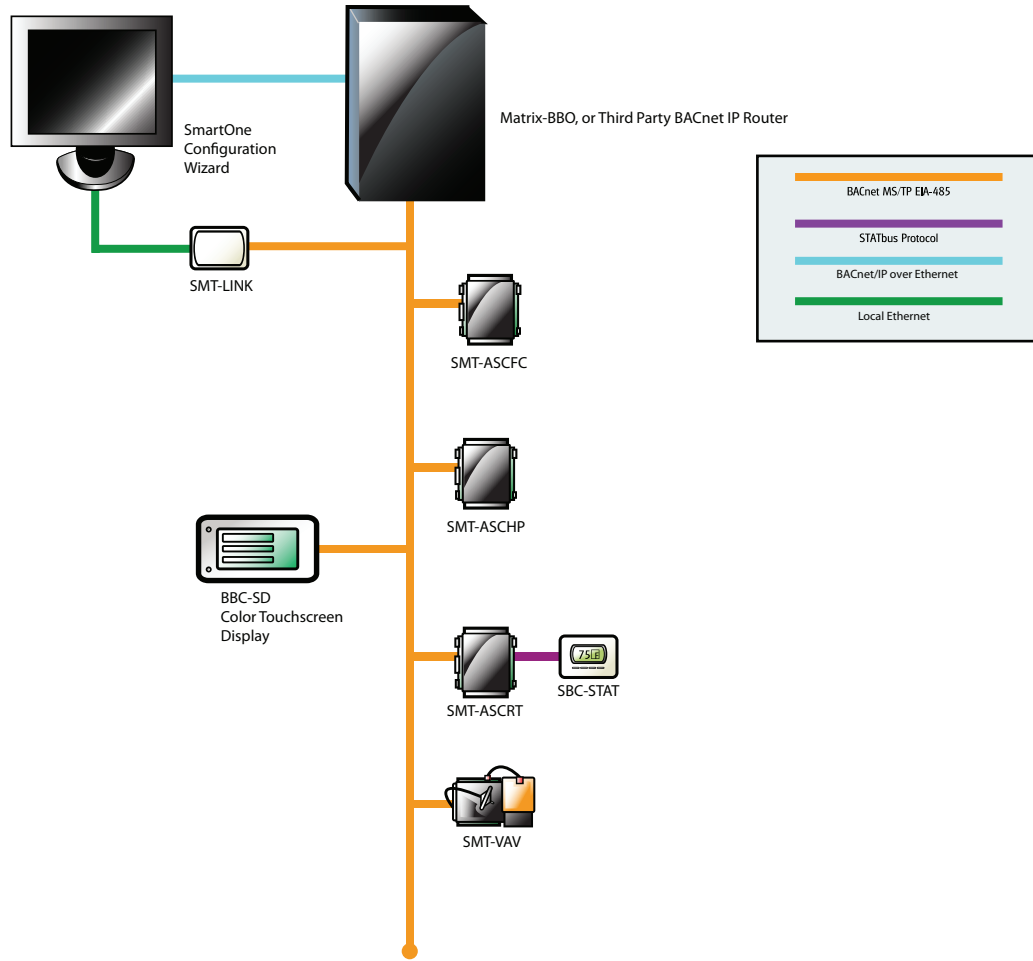
NETWORKING

- The Matrix-BBO Router communicates between BACnet MS/TP devices on the EIA-485 network and devices on a BACnet/IP or BACnet/Ethernet network.
- Line signaling: EIA-485, optically isolated,
- Wiring: shielded, twisted pair (EIA-485); CAT5 (Ethernet)
- Network protection: PTC, Tranzorb (EIA-485)
- Communications speed (EIA-485): 9600, 19.2k, 38.4k, 57.6k, 76.8k, 115.2k baud
- Network configuration: multi-drop bus
- Protocols: BACnet/IP, BACnet MS/TP, BACnet/Ethernet



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SYSTEM ARCHITECTURE



Note: To interface with SmartOne devices users must utilize either a Matrix-BBO or other Bacnet IP routing device (sold separately) or use the SMT-Link and DB-25 bundle (sold separately)

SPECIFICATIONS

Terminations

- One (1) EIA-485 port
- One (1) RJ-45 Ethernet port

Dimensions

Overall size: 14 x 11 x 3.5" (35.6 x 27.9 x 8.9 cm)
Weight: 5.0 lbs (2.26 Kg)

Processor

- High-Speed 32-bit processor built on ARM Technology

Input Supply

12-29VDC/VAC, 50/60 Hz, Nominal
2.7A maximum

Operating Environment

- Operating Temperature: 32° to 122° F (0° to 50° C)
- Relative Humidity: 0 to 80% RH, non-condensing

Agency Listings

- UL listed 916, Management Equipment, Energy (PAZX)
- FCC rules Part 15 Class B computing Device
- UL Recognized 873, Temperature Indicating and Regulating Equipment (XAPX; XAPX7)
- Complies with CE directives and standards
- BTL Listed as B-Other

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