BACnet Router Wi-Fi

FieldServer Data Sheet – BACnet Router Wi-Fi Rev. 2.C

Overview

The wireless BACnet Router offers a complete BACnet internetworking solution for BACnet/IP (LAN or Wi-Fi), BACnet Ethernet, and BACnet MS/TP networks as well as an immediate IoT cloud interface.

The FS-ROUTER-BACW offers two RS-485 ports and is a cost-effective option for configurations of 64 or fewer BACnet MS/TP devices without the need for additional line drivers.

The BACnet Router has an easy one page configuration, greatly simplifying the installation process. The BACnet Explorer discovery feature allows the integrator to easily find all the BACnet devices connected to the router, greatly simplifying the commissioning process.

The BACnet Router has the unique ability to act as a Wi-Fi access point. Users can directly connect their mobile device to a BACnet Router without having to be on the facility's LAN or WAN to access the local applications.

BACnet Router Features and Benefits

Multiple BACnet Routing Connections

- BACnet/IP & BACnet MS/TP
- BACnet MS/TP & BACnet Ethernet
- BACnet MS/TP & BACnet MS/TP
- BACnet/IP & BACnet/IP
- BACnet/IP & BACnet Ethernet

Ease of Use

- BACnet Explorer functionality discovers devices connected to the FieldServer BACnet Router for diagnostics and troubleshooting.
- BACnet Broadcast Management Device (BBMD) for a connection between different subnets, up to 50 devices supported on the Broadcast Distribution Table (BDT).
- Configure easily on the web using a PC or mobile devices without additional software installations.
- NAT support with secondary BACnet/IP connection for routing between public and private IP networks.
- Foreign Device Registration (FDR), exposing up to 147 devices details on different subnets.
- Wi-Fi access point allows for direct connection from any mobile device without having to be on the facility's LAN or WAN to access the router.
- On-board diagnostics allow easy troubleshooting for both serial and Ethernet communications.

Ease of Installation

- MDIX to use any Ethernet cable for commissioning and installation.
- DHCP to automatically obtain the IP setting from the network.
- FieldServer Toolbox makes it easy to find and diagnose all FieldServer BACnet routers on the network.
- Wide range of input power requirements for DC.

Benefits of the SMC Cloud

Registering the BACnet Router on SMC's tenant based IoT Cloud Platform, effortlessly connects your devices to the cloud, allowing secure remote access for diagnostics and configuration of your products in the field.

SMC Cloud

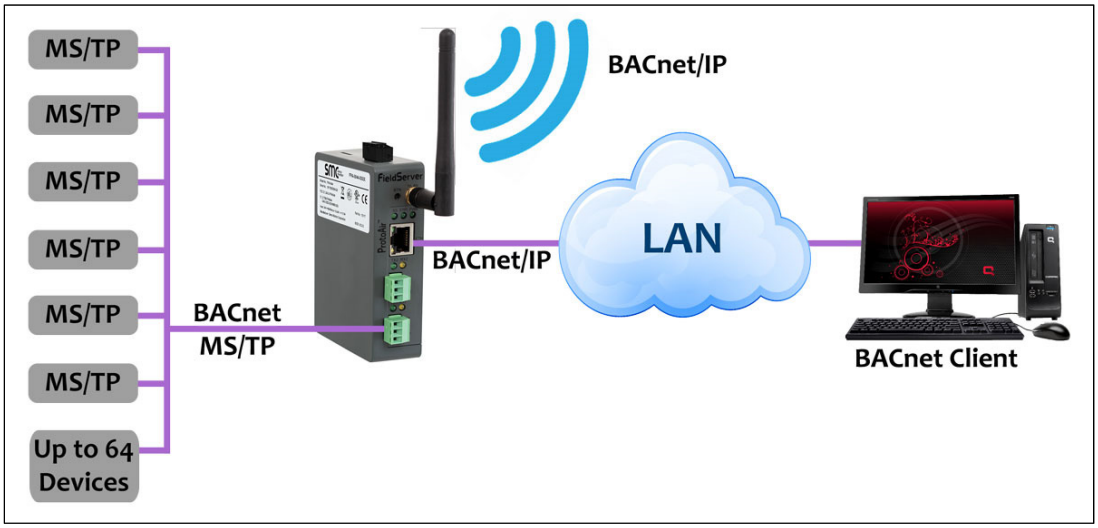
Ordering Information

- FS–ROUTER–BACW

Options

The Accessory Kit consists of a power supply, Ethernet cable, screwdriver and a USB flash drive that includes all manuals, data sheets, notes and the discovery tool.

- FS-8915-38-QS Accessory Kit, 110/220V



BACnet Router Connection Diagram

Hardware Specifications *

Communication

Serial (Galvanic Isolation): 2 x RS-485
Baud: 9600, 19200, 34800, 57600, 76800
Ethernet
10/100BaseT
MDIX
DHCP

Environment

Operating Temperature: -20 to 70ºC (-4 to 158ºF)
Relative Humidity: 10-95% RH non-condensing

Construction

Dimensions (HxWxD)
4 x 1.1 x 2.7 in (10.16 x 2.8 x 6.8cm)
Weight: 0.4 lbs (0.2 Kg)

Other

Web Configuration
Toolbox diagnostic utility
DIN rail mount included

Power Requirements

Input: 24 VAC 0.125A
9-30 VDC 0.25A @12V
Max Power: 3W

Radio – Wi-Fi 802.11 b/g/n

Frequency: 2.4 GHz
Channels: 1 to 11 (inclusive)
Antenna Type: SMA
Encryption: TKIP, WPA & AES

Approvals

CE and FCC Class B & C Part 15
BTL Marked
UL 60950-1 and CAN/CSA C22.2
IC Canada
RoHS and WEEE compliant
PTCRB and CTIA

* **Specifications subject to change without notice**

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