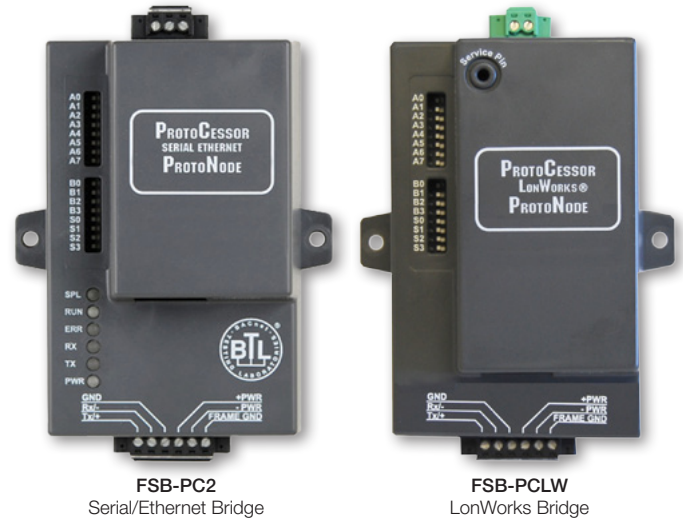




EST3 to BMS Communications Bridges

FSB-PC2 and FSB-PCLW



Overview

The EST3 Communication Bridges are ancillary devices that provide protocol translation between EST3 serial data and the serial or Ethernet input of an external device controller. Signal flow is typically one way — from the EST3 network to the building automation system.

Two communication bridges are available for use with EST3 systems. Each comes complete with the EST3 driver necessary to communicate over a single supported protocol.

The FSB-PC2 is a multi-protocol bridge that converts the EST3 External Communications Protocol (ECP) to any one of several supported protocols including Modbus RTU, BACnet MSTP and Metasys N2. It operates over RS-232 or RS-485 serial communications or Ethernet (10/100 Base-T).

The FSB-PCLW is a single-protocol bridge that converts the EST3 External Communications Protocol (ECP) to LonWorks only.

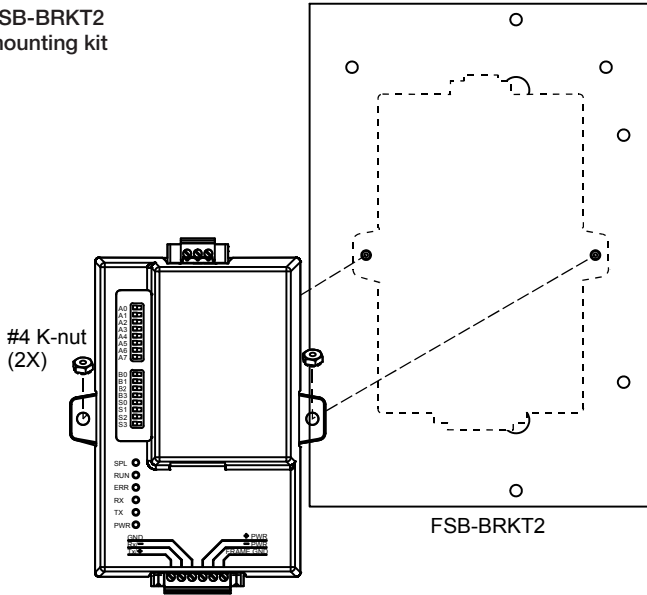
Standard Features

- **Links EST3 with building Management System**
Sends EST3 events to a BMS system via serial or Ethernet connections, helping to reduce interface hardware costs
- **Supplied with field protocols, Modbus, BACnet and Metasys**
One module provides selection of any single protocol – no need to purchase separate software or hardware modules
- **Serial and Ethernet ports**
Flexible connection type for the BMS system: RS-232 or RS-485, LonWorks, or Ethernet 10/100 Base-T
- **Software configuration**
Speeds installation and setup
- **Selectable connection to BMS via RS-485 or Ethernet**
Enable Serial-to-Serial protocol translation for bridging EST3 or Serial-to-Ethernet to Industrial Automation or Building Automation equipment
- **RoHS compliant**
Provides readiness for the Restriction of Certain Hazardous substances (RoHS) directives that are becoming prevalent in many jurisdictions.

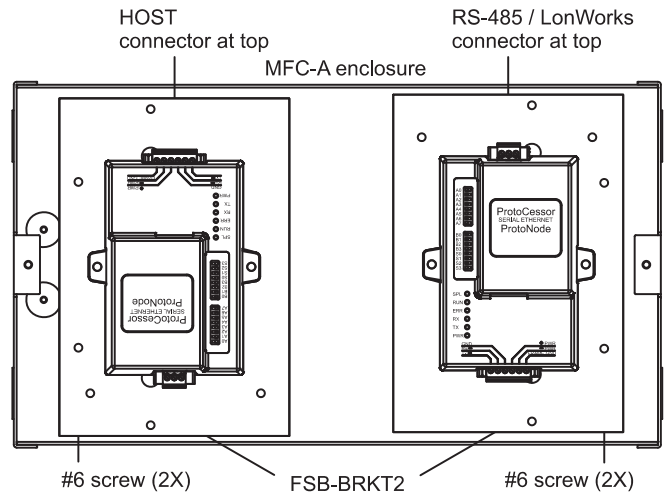
Installation

FSB bridges mount inside the EST3 control panel enclosure using the separately-ordered FSB-BRKT2 mounting kit. This kit eliminates the cost and effort of installing a separate cabinet. If an external cabinet is required, the FSBs may be mounted inside an MFC-A multifunction cabinet. FSB bridges are powered from the EST3 24VDC power supply.

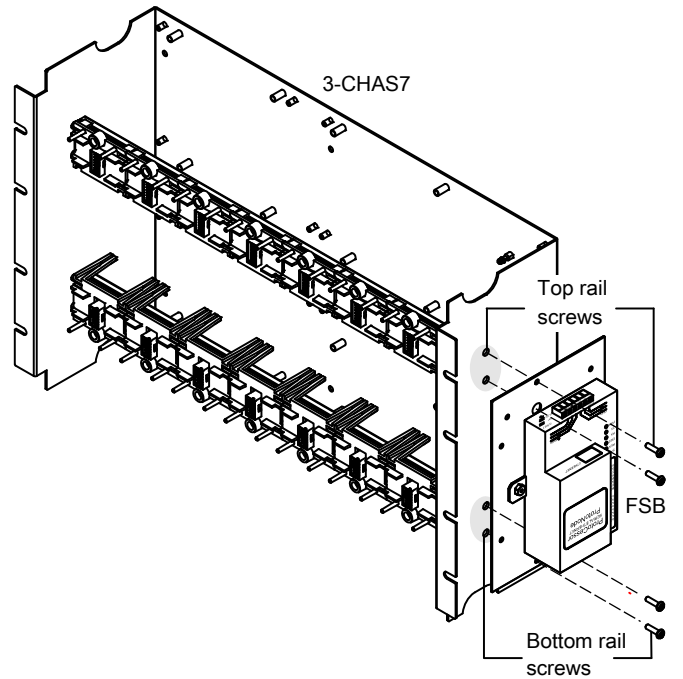
FSB-BRKT2 mounting kit



Mounting in an MFC-A Cabinet



Mounting to an EST3 3-CAS7 Chassis





Contact us...

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Technical Specifications

	FSB-PC2	FSB-PCLW
Communication Interfaces	Serial to fire panel: RS-232 To BMS: Serial (RS-485) or Ethernet 10/100Base T (auto sensing).	To Fire Panel: Serial To BMS -FTT-10 LonWorks
Supported field protocols	To EST3: Serial To BMS: Ethernet BACnet/IP (default), Modbus TCP, OPC Serial: Modbus RTU, BACnet MS/TP, Metasys N2	To EST3: Serial To BMS: LonWorks
Points per Bridge	3,600 max. ¹	1,800 max.
Operating Current	110 mA nominal, 120 mA max. (at 24 VDC)	130 mA nominal, 140 mA max. (at 24 VDC)
Input voltage	9 to 30 VDC (from EST3 power supply)	
Storage & Operating Environment	32 to 120 °F (0 to 49 °C) 5-90% RH, non-condensing	
Regulatory Approvals	CE (EN 55022, EN 55024) Surge Suppression: EN61000-4-2 ESD, EN61000-4-3 EMC, EN61000-4-4 EFT UL 916 Complies with part 15 of the FCC Rules.	
Construction and Finish	Light Grey metal enclosure with mounting ears.	
Mounting	Within EST3 cabinet using mounting kit model FSB-BRKT2 or within an MFC-A cabinet.	
Configuration	Software programmable for protocol supported as well as specific EST3 points to be translated.	
Maximum Bridges	Two per EST3 node; 10 per EST3 network	
Dimensions, W × H × D	3.6 × 5.0 × 1.6 in. (8.2 × 11.5 × 4.0 cm)	

¹ A single FSB-PC2 can support up to 3,600 points. Total points are a combination of the programmed points coming into the FSB-PC2 and the programmed points going out to the building management system. For example, if you program 1,800 points to come into the FSB-PC, you can program up to 1,800 points to go out to your building management system. See installation sheet 3102007 for further details.

Ordering Information

Model	Description	Ship Wt. lb (kg)
FSB-PC2	EST3 to BMS Communications Bridge. Mounts on separately ordered FSB-BRKT2.	3.0 (1.36)
FSB-PCLW	EST3 to BMS Communications Bridge. Mounts on separately ordered FSB-BRKT2.	3.0 (1.36)
FSB-BRKT2	Mounting bracket for FSB-PC2 or FSB-PCLW. Allows FSB series to mount in an MFC-A cabinet or on the side of an EST3 Chass7.	1.0 (0.45)
MFC-A	Multifunction Fire Alarm Cabinet, red.	7.0 (3.1)