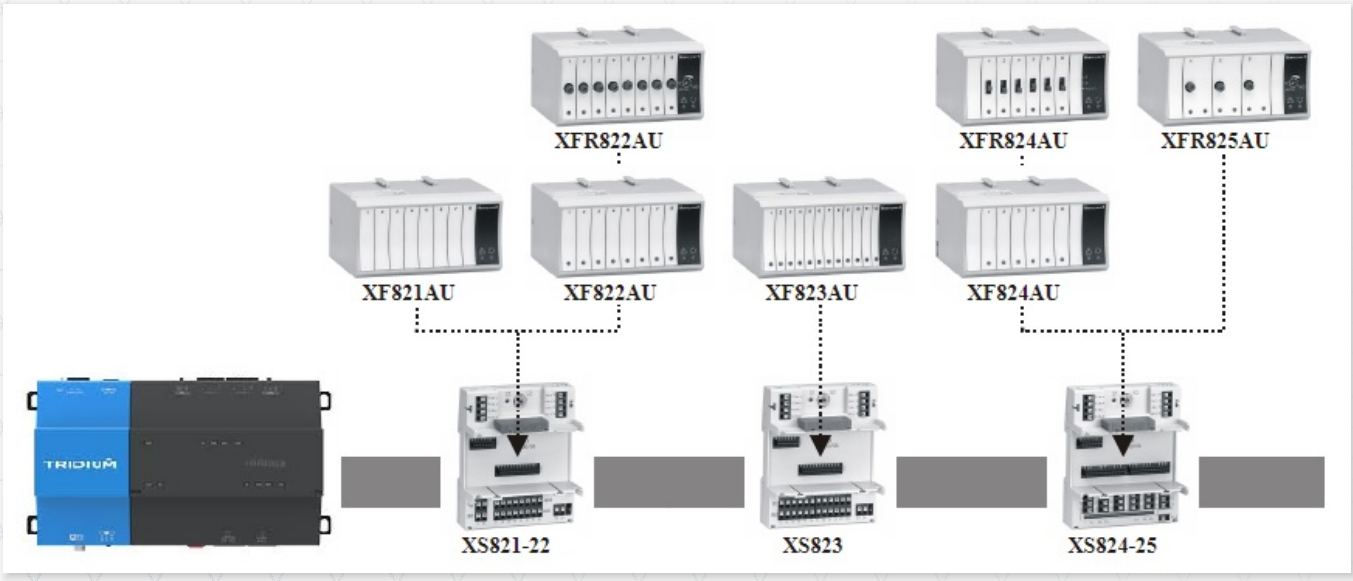
Honeywell Panel Bus

Niagara Framework Driver

The Panel Bus driver allows Tridium Niagara to communicate directly with Honeywell Panel Bus I/O modules, enabling JACE controllers to replace legacy Honeywell main controllers while retaining the existing I/O infrastructure. This approach delivers significant cost savings compared to full controller and I/O replacement. The existing Panel Bus wiring and I/O modules remain in place, minimizing installation time and disruption to building operations. Devices and points are discovered automatically. The driver reads inputs and writes outputs across all supported module types, including both standard and override-capable (R-suffix) variants.
The driver connects via RS-485 at 115.2 kbps from a JACE, requiring no additional gateways, protocol converters, or special hardware.

- ✓ Retains existing Honeywell Panel Bus I/O modules
- ✓ Replaces legacy main controllers with JACE
- ✓ Automatic device and point discovery
- ✓ Reads from inputs, writes to outputs
- ✓ Supports pluggable and mixed I/O modules
- ✓ Override-capable models supported
- ✓ Direct RS-485 connection from JACE at 115.2 kbps
- ✓ Multiple RS-485 ports per JACE for independent networks
- ✓ Significant cost savings over full controller replacement
- ✓ No annual fees
- ✓ Free technical support and upgrades



Panel Bus Architecture in Niagara Workbench

SUPPORTED DEVICES

XF821A	XFR824A	CLIOP822A	CLIOPR825A
XF822A	XFR825A	CLIOPR822A	CLIOP830A
XFR822A	XF830A	CLIOP823A	CLIOP831A
XF823A	XFU830A	CLIOP824A	CPO-IO830
XF824A	CLIOP821A	CLIOPR824A	

SYSTEM REQUIREMENTS

- ✓ Niagara framework 4.8 or later, including OEM versions
- ✓ JACE with RS-485 port
- ✓ Panel Bus driver license

CONNECTIVITY

RS-485

Connect a JACE directly to the existing Honeywell Panel Bus I/O modules via RS-485 at 115.2 kbps. The JACE replaces the legacy main controller, reusing the existing I/O infrastructure. No additional gateways or converters required.

ORDERING INFORMATION

Part Number	Description
PNL-J-100	Panel Bus for JACE, 100 points
PNL-J-250	Panel Bus for JACE, 250 points
PNL-J-1000	Panel Bus for JACE, 1000 points
PNL-J-UNL	Panel Bus for JACE, unlimited points
PNL-SUP	Panel Bus for Supervisor, first 500 points
PNL-SUP-500	Panel Bus for Supervisor, extra 500 points