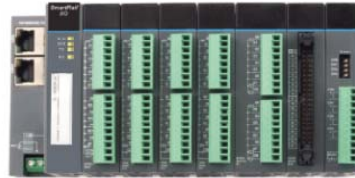


Smart I/O Ethernet Header – XEL-BSSA



Smart I/O (Ethernet) is a new highly expandable, modular I/O system for the i3 controllers. It can be used to expand the I/O capacity of i3 controllers with built in Ethernet by merely a few points or potentially thousands of points.

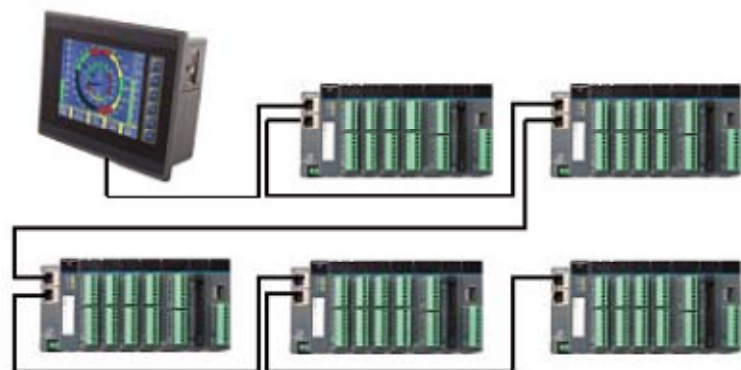
Modular

Smart I/O is a modular IO system which can add up to 8 I/O modules per base with a wide variety of digital and analog I/O to choose from. Digital I/O includes DC inputs, DC outputs, and Relay outputs. Analog I/O includes 0(4)-20mA/0-10V inputs and outputs, Thermocouple Inputs and RTD Inputs. Modules are available with inputs only, inputs and outputs, and outputs only.

Compact

Smart I/O is very compact, with a flexible footprint that only grows as you add modules. The Smart I/O Base is 3.5”H x 2.375”W – with a depth of only 1.75”. Each I/O module adds only about ¾” of width. Using 16 point modules, the Smart I/O can support 128 I/O points in a footprint of less than 3.5”H x 8.75”W.

IO expansion up to maximum of 2048 digital and 512 analog using multiple Ethernet bases.



Smart I/O Ethernet Header – XEL-BSSA



Highly Expandable

With digital I/O densities ranging from 8 points to 32 points per module, and an analog density of 4 channels per module – Smart I/O can support as many as 256 digital I/O points and 32 analog I/O points per base. Adding multiple bases to a single i3 control system is very easy. This can allow the number of I/O to grow to literally the limits of the i3 I/O memory space (Digital-2048, Analog-512). Multiple bases can also be used to distribute the I/O to locations closer to the sensors and actuators, saving wiring costs.

Easy to Setup and Configure

Unlike many I/O systems that are complex and difficult to use, Smart I/O is simply configured using i3 Configurator programming software. Smart I/O Ethernet bases utilize i3 Configurator Hardware Configuration menu and a “plug and play” approach.

Convenient Features

Smart I/O has all the features you need. The Ethernet Base has a built-in 10-100 switch, to make cabling and expansion simple and less expensive. All Smart I/O modules have removable terminals strips. Digital I/O modules have ON/OFF state LED indication. Analog I/O modules have fault LEDs to indicate sensor errors.

| General Specifications | |
|------------------------------------|--|
| Required Power (Steady State) | 550mA @ 24 VDC |
| Primary Power Range | 19.2 – 28.8 VDC |
| Output Power | 1500mA @ 5 VDC |
| Relative Humidity Non-condensing | 5 to 95% |
| Operating Temp. | -5°C to +50°C |
| Storage Temp. | -40°C to +75°C |
| Vibration & Shock | As Per IEC1131-2 |
| Noise Immunity | As Per IEC1131-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4 |
| Approvals | CE, UL |
| Communication Specification | |
| Data Transmission | 10/100 Mbps |

*Limited to the memory and application of i3 controller

Smart I/O Ethernet Header – XEL-BSSA



| Part Numbers** | Description |
|-----------------------|--|
| XEL - BSSA | Smart I/O Ethernet Header |
| XBE-DC16B | Expansion Module 16 Point, (9-30)VDC Input |
| XBE-DC32A | Expansion Module 32 Point, 24VDC |
| XBE-DR16A | Expansion Module 8 Point 24VDC Input, 8 Point Relay Output |
| XBE-RY16A | Expansion Module 16 Point Relay Output |
| XBE-TP16A | Expansion Module 16 Point Transistor Output (Source) |
| XBE-TP32A | Expansion Module 32 Point Transistor Output (Source) |
| XBF-AD04A | Expansion Module 4 Analog Input |
| XBF-AH04A | Expansion Module 2 Analog Input , 2 Analog Output |
| XBF-RD04A | Expansion Module 4 PT100 Inputs |

** Ask IMO representative for more types of expansion modules.

The XEL-BSSA is compact (45mm W x 90mm H x 60mm D), and mounts on DINrail. Each XEL-BSSA base requires 24VDC power, and an appropriate Earth Ground connection for normal operation.

