

# FOUNDATION Fieldbus HSE (Ethernet) Interface

## NI FBUS-HSE/H1

- High-speed Ethernet (HSE) linking device
- Ethernet TCP/IP 10BaseT interface (10 Mb/s)
- 2-port H1 output interface (31.25 kb/s)
- Complies with HSE specification (Class 42a-2)
- Runs as link-active scheduler
- Manages all HSE and H1 communications

### Operating Systems

- Windows 2000/NT/XP

### Recommended Software

- LabVIEW
- Lookout
- NI-FBUS Configurator

### Other Compatible Software

- C/C++
- Visual Basic

### Driver Software (included)

- NI-FBUS Communications Manager
- OPC 2.0 Server

NEW



## Overview

The National Instruments FBUS-HSE/H1 is a high-speed Ethernet (HSE) linking device that couples a 10 Mb/s HSE network to two H1 FOUNDATION Fieldbus segments. The NI FBUS-HSE/H1 complies with Class 42a of the HSE profile and acts as the link-active scheduler (LAS) for the H1 segments, as well as manages all fieldbus communications. It provides connectivity to H1 devices through an HSE network, and it handles function-block configurations and scheduling on H1 segments. The FBUS-HSE/H1 is configured from any Windows 2000/NT/XP based Ethernet-enabled workstation using NI-FBUS Configurator software. NI-FBUS Communications Manager (CM) software is included with the FBUS-HSE/H1.

Serving as link master for 31.25-kbps H1 segments connected to the HSE network running at 10 Mb/s or higher, the FBUS-HSE/H1 is a crucial component in FOUNDATION Fieldbus technology. H1 is optimized for traditional process control applications, while HSE, which employs lower-cost, commercial off-the-shelf (COTS) Ethernet equipment, is designed for high-performance control applications and plant information integration. The combined H1/HSE solution results in full integration of sensor, process/discrete control, and hybrid/batch control subsystems with higher level, supervisory applications. The FBUS-HSE/H1 is the key to integrating H1 and HSE technology.

## Specifications

### Network

|                          |                  |
|--------------------------|------------------|
| Network interface .....  | 10BaseT Ethernet |
| Cabling distance .....   | 100 m for HSE    |
| Power supply range ..... | 11 to 30 VDC     |
| Power consumption .....  | 8 W              |

### Mechanical Dimensions

|                  |  |
|------------------|--|
| Dimensions ..... | 10.9 by 10.9 by 9.1 cm (4.3 by 4.3 by 3.6 in.) |
|------------------|--|

### Operating Environment

|                           |                          |
|---------------------------|--------------------------|
| Ambient temperature ..... | 0 to 55 °C               |
| Relative humidity .....   | 10 to 90%, noncondensing |

### Storage Environment

|                           |                         |
|---------------------------|-------------------------|
| Ambient temperature ..... | -55 to 85 °C            |
| Relative humidity .....   | 5 to 95%, noncondensing |

### Noise Emission

|                   |                       |
|-------------------|-----------------------|
| FBUS-HSE/H1 ..... | FCC Class A Certified |
|-------------------|-----------------------|

# Global Services and Support

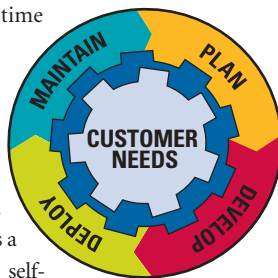
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