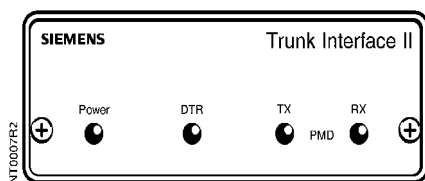


High Speed Trunk Interface II



Description

The High Speed Trunk Interface II (HSTI2) is a device that electrically interfaces an RS-232C serial data line to any of the APOGEE Automation System or System 600 RS-485 communication trunks including Protocol 2 (P2) Building Level Network (BLN), Protocol 1 (P1) Floor Level Network (FLN), P1 or P2 Powers Multi-Drop (PMD) or P1 Local Area Network (LAN).

The HSTI2 is supplied power by an 115Vac or 230Vac plug-in transformer included with the device. The HSTI2 is enclosed in a metal modem-like enclosure suitable for installation next to a Personal Computer.

Major Applications

- Connection of Insight[®] workstation to BLN at data speeds from 1200 to 115200 bps.
- Connection of a modem, wireless modem or line driver running a leased line application not requiring handshaking at data speeds from 300 to 19200 bps.
- Connection of Insight workstation to P2 PMD at data speeds from 300 to 19200 bps.
- Connection of the Insight PDP-11[®] Minicomputer to P1 PMD at data speeds from 300 to 4800 bps.
- Isolates RS-485 communications trunks serving "critical" field panels from shorts, power surges and other equipment failures on the RS232 side.

Additional Features

- Provides indication of power, data terminal ready and trunk receive or transmit activity
- Jumper selectable legacy P1PMD trunk biasing
- Includes Surge Transient protection and external ground wire system where PC is not grounded
- Small enough to be installed in the bottom of a cabinet enclosure or on a table top next to PC

Specifications

Dimensions	
HSTI2 538-665	4-1/4" W x 4-1/2" L x 1-3/4" H (108 mm x 114 mm x 45 mm)
Power Pack	2" W x 2-1/2" L x 1-3/5" H (51 mm x 64 mm x 41 mm)
DC Power Cord	6 feet (1.8 m)
Input Voltage	
HSTI2, 115 Volt	102 Vac to 132 Vac, 57 to 63 Hz @ 100 mA
HSTI2, 230 Volt	200 Vac to 250 Vac, 47 to 63 Hz @ 50 mA
DC Output	6 Vdc @ 165 mA, 6 - 12 Vdc
Environmental (Operating)	32° F to 120° F (0° C to 49° C) 10 to 90% RH, non-condensing
Trunk Levels	per EIA RS-485 2-wire interface w/ failsafe marking state and earth reference
Termination	Switch selectable 620 Ω pull up/down for RPU or RCU P1 PMD or 47K Ω pull up/down
Interface Levels	RS-232C 50 feet (15 m)

Bit Rates	(300,600) 1200, 4800, 9600, 19200, 38400, 57600 and 115200 bps.
Transient protection	
ESD	EN61000-4-2
Radiated Immunity	EN61000-4-3
EFT	EN61000-4-4
Surge	EN61000-4-5
Conducted Immunity	EN61000-4-6
AC Input (as installed)	To Waveform described in ANSI/IEEE C62.41-1991 Category A Ring wave at 6Kv O.C. and Category B Impulse at 6Kv O.C.
Agency Approvals	
UL 864	Smoke Control Equipment (UUKL)
UL 916	Energy Management Equipment (PAZX)
ULC/ORD-C100-1992	Smoke Control Equipment (UUKL7)
FCC	Part 15 Class B
CE per:	
EMC Directive	
EN50081-1	Residential, Commercial and Light Industry
EN50082-1	Residential, Commercial and Light Industry

Product Ordering Information

Description	Product Part Number
High Speed Trunk Interface (Part No. 538-665) with 115 Vac to 6 Vdc Plug-in Power Supply (Part No. 538-658)	538-670
High Speed Trunk Interface (Part No. 538-665) with 230 Vac to 6 Vdc Plug-in Power Supply (Part No. 538-758)	538-675
Cable with two 25-pin male connectors for HSTI2 to Courier Leased-Line Modem or Line Driver	536-106
Cable with one 25-pin male connector and one 9-pin female connector for HSTI2 to PC 9-pin COM port	536-004
Enclosure (4") Mounting Bracket Kit allows a single HSTI2 to be mounted on a wall. Kit includes two mounting brackets, instructions, wall anchors and screws.	538-708K
Rack Mounting Bracket Kit for 4" Enclosures allows four HSTI2 to be mounted in a 19" rack space at 1-1/2" (1U) high. Kit includes one bracket, and instructions.	538-716K

Information in this document is based on specifications believed correct at the time of publication. The right is reserved to make changes as design improvements are introduced. APOGEE and Insight are registered trademarks of Siemens Building Technologies, Inc. ©2004 Siemens Building Technologies, Inc.