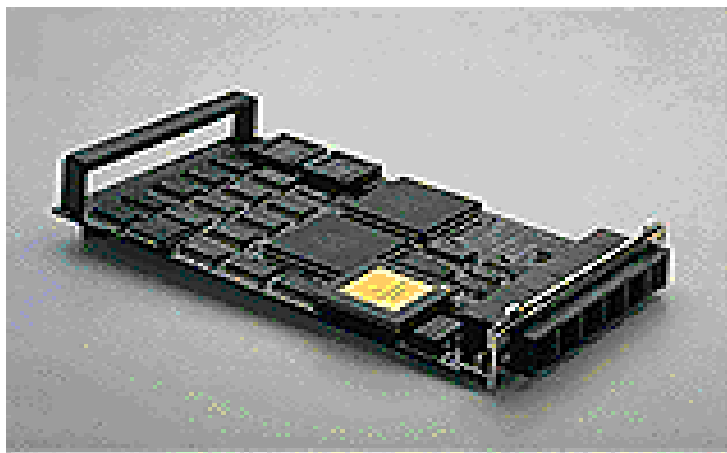


Data Sheet



Features

- 3 Burst transfers of 20 or 25MBytes/sec on 20 or 25MHz SBus
- 3 Up to 8 Megabytes/second (sustained) aggregate link bandwidth
- 3 Proprietary 32-bit interface operating as a slave device
- 3 25 MHz IMS-T425 transputer or optional T80x at 25 or 30 MHz
- 3 Optional 4 or 8 MBytes DRAM
- 3 Industry standard, single slot SBus card
- 3 System Services (notError, Analyze, Reset)
- 3 Four serial transputer links (Software selectable: 10 or 20 Mbits/sec)
- 3 Differentially driven links supported up to 50 feet
- 3 Modular phone connections to remote systems
- 3 Software support for popular transputer software
- 3 1-Year warranty on parts and labor

Description

The HSI/SBus provides a high-speed interface between the Sun SBus and Inmos transputers. The HSI/SBus is a slave device on

the SBus, and comes with drivers for the SPARCstation and SUN-4. The LINK.C functional interface is implemented for full compatibility with Inmos, Logical Systems, 3L, and other software packages.

The HSI/SBus product includes an interface card with a single 25 MHz, T425 transputer, software drivers, demonstration software, and device level diagnostic software. CHECK, MTEST, and FTEST are also included. Documentation is provided for configuration, installation, testing, and connection with other transputer products.

Alta provides an option for the HSI/SBus which includes a single-node ANSI C compiler, linker, and loader (Logical

Systems Transputer Toolset) plus 4 or 8 MBytes of memory and a 25 or 30 MHz T805 in place of the T425. This options allow the HSI/SBus to be used as a single-node accelerator for the SPARCstation, or as a single-node transputer development system.

The HSI/SBus follows all of the mechanical and electrical standards for SBus devices. The device is booted from the host, providing flexibility for upgrades and custom interfaces. When used for parallel processing applications, the HSI/SBus is connected to an Alta-supplied chassis with a ready-to-use array of transputers and peripherals.

HSI/SBus Parallel Applications

The HSI/SBus is a low-cost device for interfacing Sun products with transputers for parallel processing applications. With its high-end performance and the flexibility of interconnection which it provides, the HSI/SBus is a versatile tool for the system

HSI/SBus

Host System Interface for Sun SBus

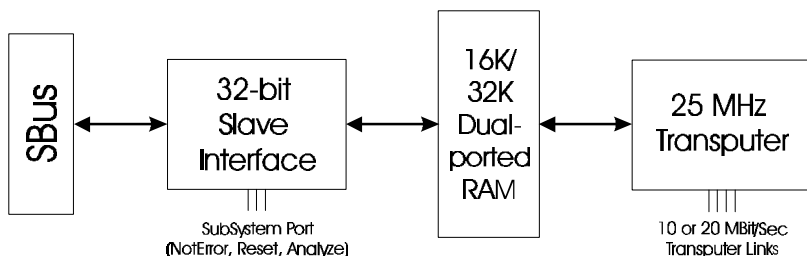
Applications can easily access each of the four transputer links through the software that is supplied. The transputer links are differentially driven, using AT&T 41-series drivers, to noise immunity across cable lengths up to 50 feet. Cables are easily fabricated using modular telephone handset connectors and provide an excellent level of standard telephone wire.

OEM and Educational Pricing

Alta offers special pricing for Volume End Users (VEU's), OEM's and educational institutions. Please contact your Alta marketing representative for information.

Your Guarantee of Quality

HSIs are *quality-built* for lasting value. They are manufactured using the most current Surface Mount Technology (SMT) for affixing the board components. Alta's testing and burn-in procedures include complete functional tests of the HSI's memory, transputer, and SBus control circuitry prior to shipment.



Alta warrants all products to be free from defect for 1 year from date of purchase. Alta will repair or replace any defective product when returned within 1 year of purchase.

Specifications

Processors

Transputer IMST425-25
T805/25 or 30 (Optional)

Electrical

Operating Voltage 5+/-0.25V
Operating Current 1.0A
Power Consumption <5.0W
Max. Ripple/Noise 100mV

Environmental

Temperature 0°C to 60°C
Relative Humidity 10% to 90%
non-condensing
Dimensions Single-slot SBus
3.3" x 5.75"

Interface Connectors

SBus 96-pin standard SBus
Differential links modular handset plug
System Services modular handset plug

Performance

SBus to Transputer 20 MBytes/sec (burst)
Transputer links Full link speed

Software Support

Drivers and servers available for Immos, Logical Systems, 3L, and other suppliers of transputer software.

Ordering Information

To purchase: Please order:

Interface and drivers.....HSI-SBus

Interface and drivers plus C compiler,
4MB DRAM, and
25 MHz T805.....HSI-SBus/4-25
or 30 MHz T805.....HSI-SBus/4-30

8MB DRAM, as above.....HSI-SBus/8-25
or 30 MHz T805.....HSI-SBus/8-30

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