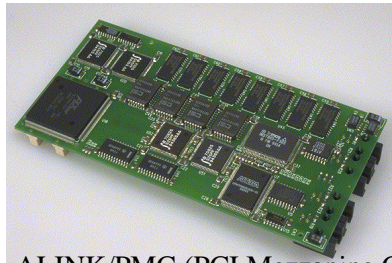
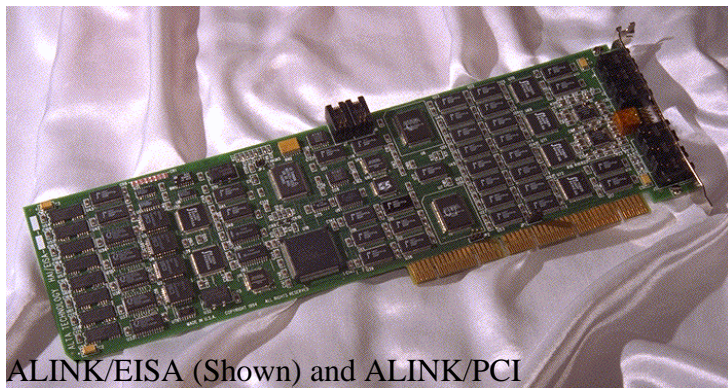


Alta Communications Products



ALINK/PMC (PCI Mezzanine Card)



ALINK/EISA (Shown) and ALINK/PCI

ALINK Interfaces for PCI, PMC, and EISA Scaleable Fibre Channel Communications

Board-level bus interface products for network processing, based upon compliance to the Fiber Channel Physical Layer Standard (FC-PH).

Product Overview

ALINK products from Alta Technology combine the best features of Fibre Channel communications with embedded computation on industry standard bus architectures. The ALINK is a Direct Memory Access (DMA) engine acting as a peripheral controller between one or more Fibre Channel transceivers and the host memory. The DMA engine directs communications traffic with minimal impact to the host processor. The 250 MBits/second transceivers are bi-directional -- both directions supported by independent DMA engines, sustaining up to 50 Mbytes/second total throughput per ALINK over differential coax connections. Additionally, four 20 MBit/second asynchronous TLINKs are included for control and slow-speed communications.

ALINKs are available for PCI and PMC (PCI Mezzanine Card) and EISA busses, and are built into Alpha-based processors from Alta. Drivers for DEC, Sun, HP, SGI and Intel-based platforms support the ALINK in UNIX, VxWorks, and Win95 environments. The Fibre Channel transmitter/receiver IC integrates a complete phase-locked loop clock recovery and data retiming/regeneration subsystem, a phase locked loop clock synthesizer, a 10:1 Mux, a 1:10 Demux, an 8b/10b Encoder and a 10b/8b Decoder. It provides a complete physical interface in compliance with the Fibre Channel Physical Layer Standard (FC-PH). This implementation is supported in "raw" mode (with programmatic access to the full 250 MBits/second) or as the physical layer for TCP/IP communications between processors.

Alta Communications Products

ALINK Interfaces for PCI, PMC, and EISA

Specifications

Bus Support

ALINKs per board

TLINKs

TLINKs are compatible with twisted pair
SGS Thomson transputer products and
embedded control products from Alta.

PCI

2

4

PMC

1

2

EISA

2

4

Alpha Processors

2 or 4

4

I/O Communications

ALINK Bandwidth (per direction)

250 Mbits/Sec per ALINK

Sustainable: 25 MBytes/Sec/ALINK/direction

TLINK Bandwidth (per direction)

20 Mbits/Sec per TLINK

Sustainable: 1.7 MBytes/Sec

Cable Connections

ALINK - 6-pin (2X3 x .025" on .1 centers)
to micro coaxial cable

TLINK - Modular handset jack to twisted pair

Electrical

DC voltage 5V- 5%

Power Dissipation (Typical)
(MAX)

PCI

8

11

PMC

4

6

EISA

8

11

Alpha Processors

50 (Includes processor)

76

Environment

Operating Temp. 0° - 60° C

Ordering Information

To purchase: Please order:

for PCI ALINK/PCI

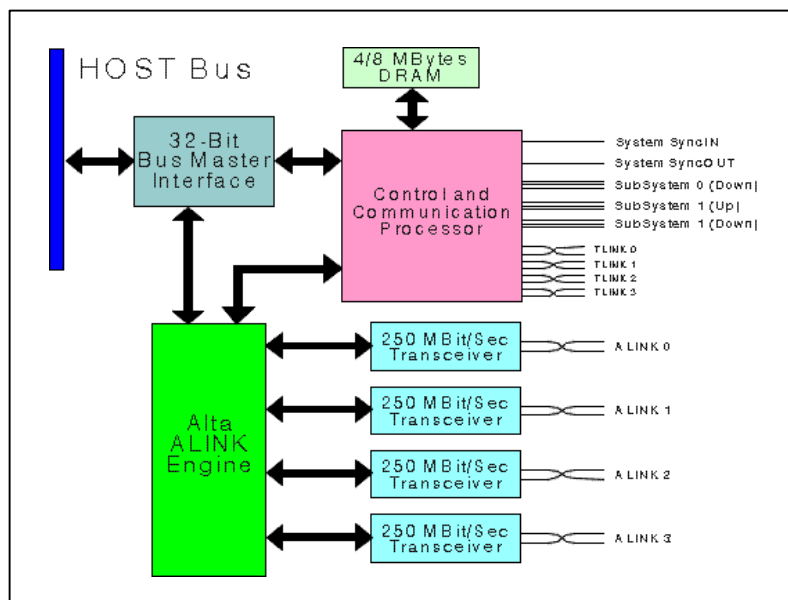
for PMC ALINK/PMC

for EISA ALINK/EISA

for Alpha see Alpha Processor Data Sheets

Other configurations may be available.

Please contact your Alta Sales Representative.



ALINK Architecture

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