



Parallel Processing Solutions

# SuperLink/XL

Preliminary Data Sheet

Add-in transputer board for the IBM PC/AT and compatibles and Apollo

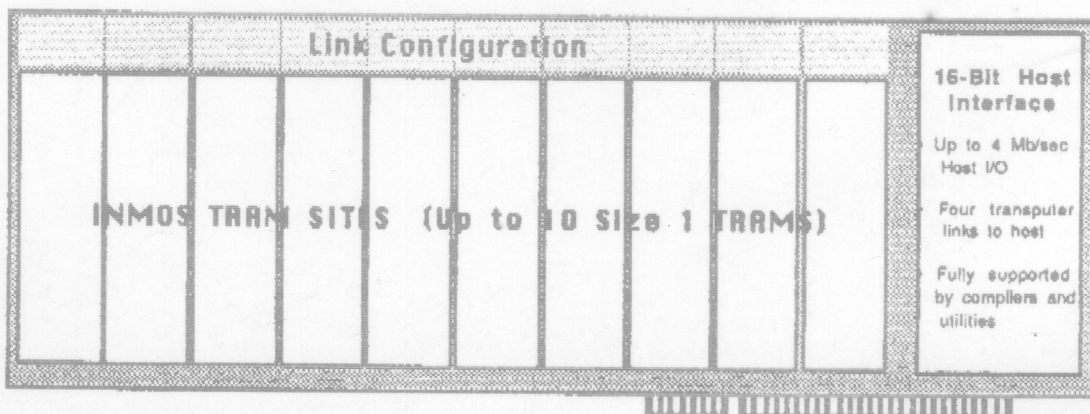
## Features

- SuperLink/XL host interface
  - 4 Megabytes/second throughput
  - 16-bit PC/AT interface
- User definable, flexible topology
  - Differential or twisted-pair connection to other boards
  - Up to 20 processors per board
  - Flexible memory configurations
  - 3 or 4 processor-cycle memory
- 10 Inmos TRAM sites
  - T8xx or T4xx processors
  - 20 MHz clock
  - 10 MIPS Transputer
  - 1.5 MFLOPS on-chip floating point co-processor (T8xx)
  - 4 transputer links (10 or 20 MBits/Sec)
- External 37-pin connector
- Altacor software support

## Description

The Altacor SuperLink/XL consists of a PC/AT add-in board with a high-speed, 16-bit (AT) host interface and support software. The SuperLink/XL board has sockets for up to 10 Inmos (or compatible) TRAM (Transputer plus Memory) modules. These modules have local memory ranging from 4K (internal memory only) to 8 Megabytes. The topology can be configured by the user using cable connections or may be pre-configured using Altacor's unique topology modules.

With Altacor software tools, a single SuperLink/XL board can be used as an add-in array of transputers for use in parallel processing algorithms. Multiple boards may be combined for solutions requiring massively parallel computation power. Typical applications include workstation acceleration engines, graphics applications, scientific and mathematical modeling, neural networks, simulations, image processing, and artificial intelligence.



# SuperLink/XL

*Ordering Information (preliminary)*

PRODUCT / OPTION	DESCRIPTION
SL/XL	SuperLink/XL - Host Interface
XL-DT-800	Altacor Double-TRAM (2 T800 transputers, no memory)
XL-B401-3	INMOS B401 TRAM (32 KBytes) with IMS T800-20*
XL-B402	INMOS B402 TRAM (8 KBytes) with IMS T212-20
XL-B403-3	INMOS B403 TRAM (1 MByte) with IMS T800-20*
XL-B404-3	INMOS B403 TRAM (2 MBytes) with IMS T800-20*
XL-B405-3	INMOS B405 TRAM (8 MBytes) with IMS T800-20*
XL-CSA	Pre-configure 4 links for CSA Link connections
XL-DEF	Pre-configure 4 links for Definicon Link connections
*OPT-414	Replace T800 transputer with T414 transputer

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