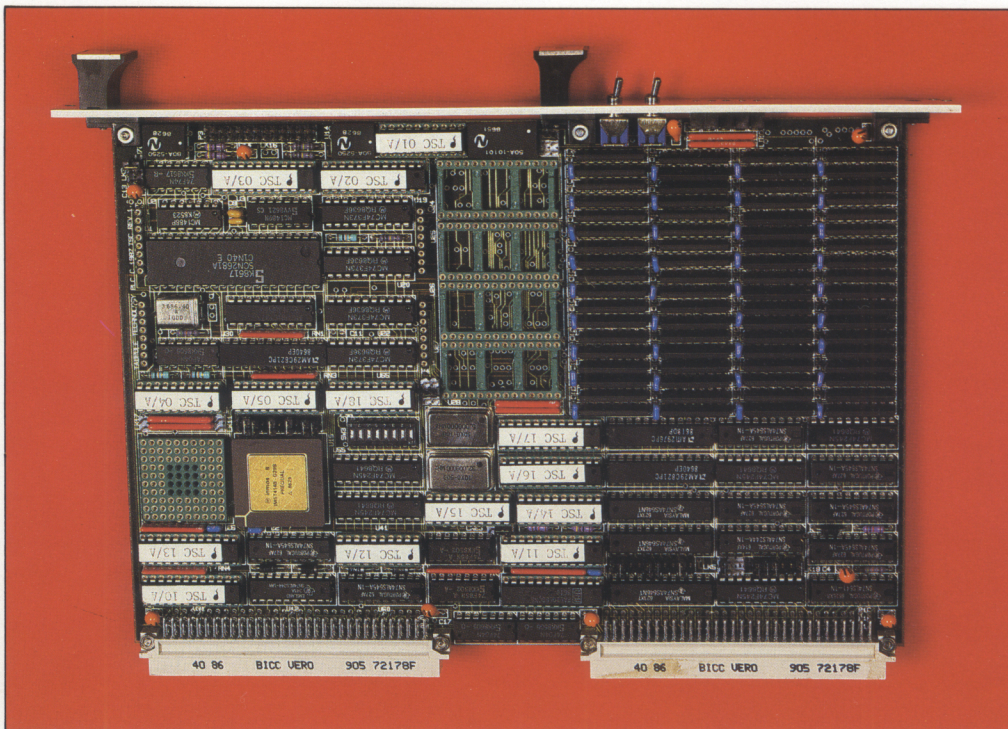


# TP-TSC Transputer System Controller



The TP-TSC is a high-performance parallel processing board designed to be integrated into VME based systems. Based on the INMOS T414 32-bit Transputer, the TP-TSC is suitable for use as a main system processor or as a specialised accelerator within existing systems. It may also be used as a Transputer development environment running in conjunction with the UNIX Operating System.

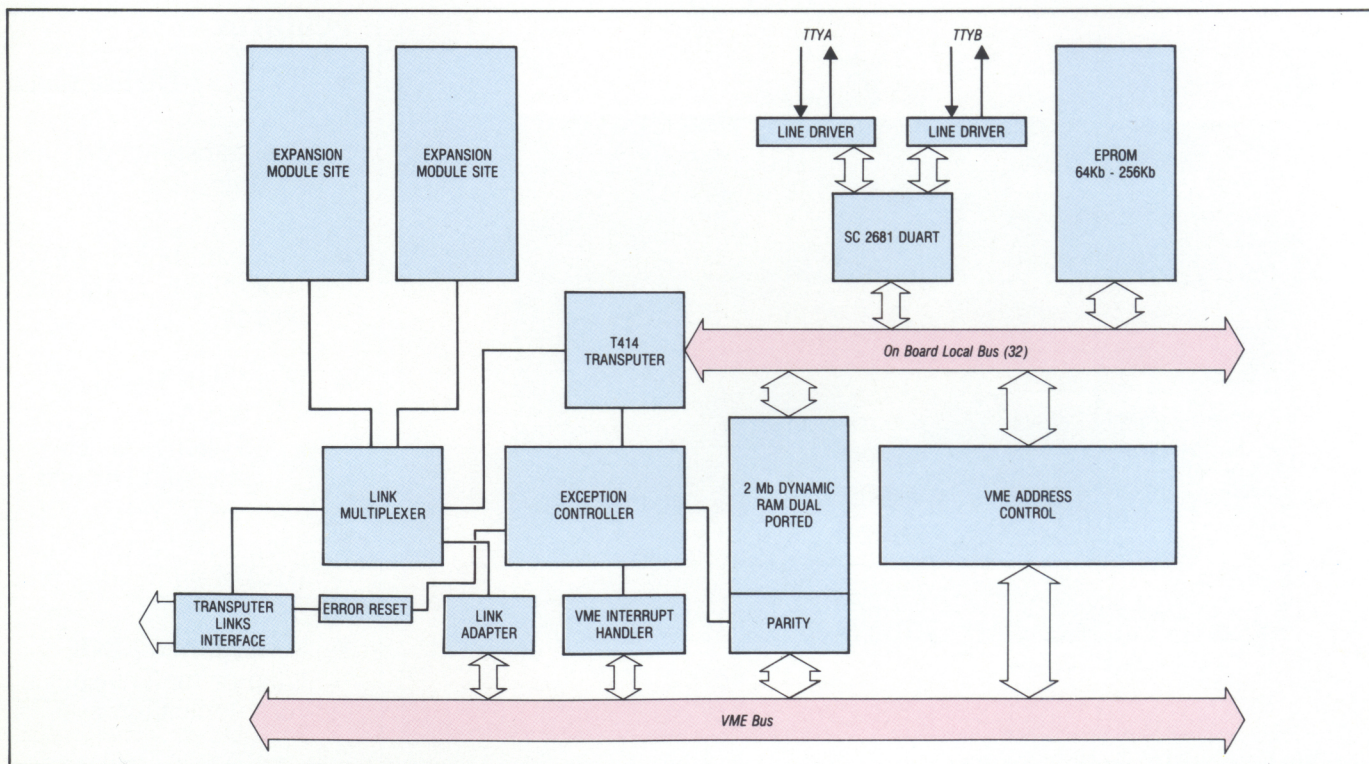
Developed in co-operation with INMOS, the TP-TSC is compatible with the INMOS range of Transputer products as well as with Tadpole's other board level products. The user may add an optional number of Transputers to the TP-TSC using expansion modules. In this way, the TP-TSC provides a bridge between a large Transputer array and facilities readily available on main system buses, including hard disc storage or industrial controllers.

The TP-TSC supports the OCCAM development environment with an interface to UNIX System V.2.2. Tadpole also provides software with the board which enables the compilation and execution of OCCAM software running in parallel with the UNIX Operating System. This includes UNIX file server facilities.

## Features

- T414 32-bit Transputer
  - 2 x Transputer expansion module sites
- Compatible with INMOS BOO Series evaluation boards
- Full VME Interface
  - Bus Master
  - System Master
  - Interrupt Handler
- 2Mb dual-ported dynamic DRAM with parity protection
- VME ported LINK adaptor for Transputer communication
- 2 x RS232 ports
- OCCAM development environment
- UNIX System V interface





Processor	T414 Transputer
DRAM	2Mb
Cycle Time	250nS
Access Time	120nS
Parity Error	Dual ported to VME bus
EPROM	Generates Event input
Transputer	64-256Kb
Expansion	Four links to P2 Interface compatible with INMOS BOO evaluation card
Links	Four links to each of two module expansion sites User configurable on Patch area Software configurable with Link Multiplexer (1987)
RS232 Ports	Two
Handshaking	RTS, CTS
Bus	
Interface	VME Revision C
Compliance	System Master
	Arbiter
	PRI
	Bus Timer
	Requester
	BTO (14000)
	R (0-3) (STAT)
	ROR/RWD
	A32/24/16:D32/16/8
	(UAT/RMW )
	A32/24:32/16/8
	Interrupt handler
	I (1 - 7) (STAT)
Dimensions	160 x 233mm single slot
Environmental	Operating Temperature: 0 - 55° C Operating Humidity: to 90% (non-condensing)
Software	Transputer Development System Software Transputer Environment Editor, OCCAM Compiler, Fortran, C, Pascal UNIX File System Server

## Transputer Development Software

- Transputer Environment
- Folding editor
- OCCAM Environment
- Fortran, C, Pascal Support
- File System server for UNIX Operating System V.2.2

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UNIX is a trademark of AT&T

Tadpole reserves the right to change specifications without prior notice



Transtech Devices Ltd.  
Unit 3, St. Johns Estate,  
Penn, Bucks. HP10 8HR  
Telephone: (0494 81) 6681  
Telex: 838844