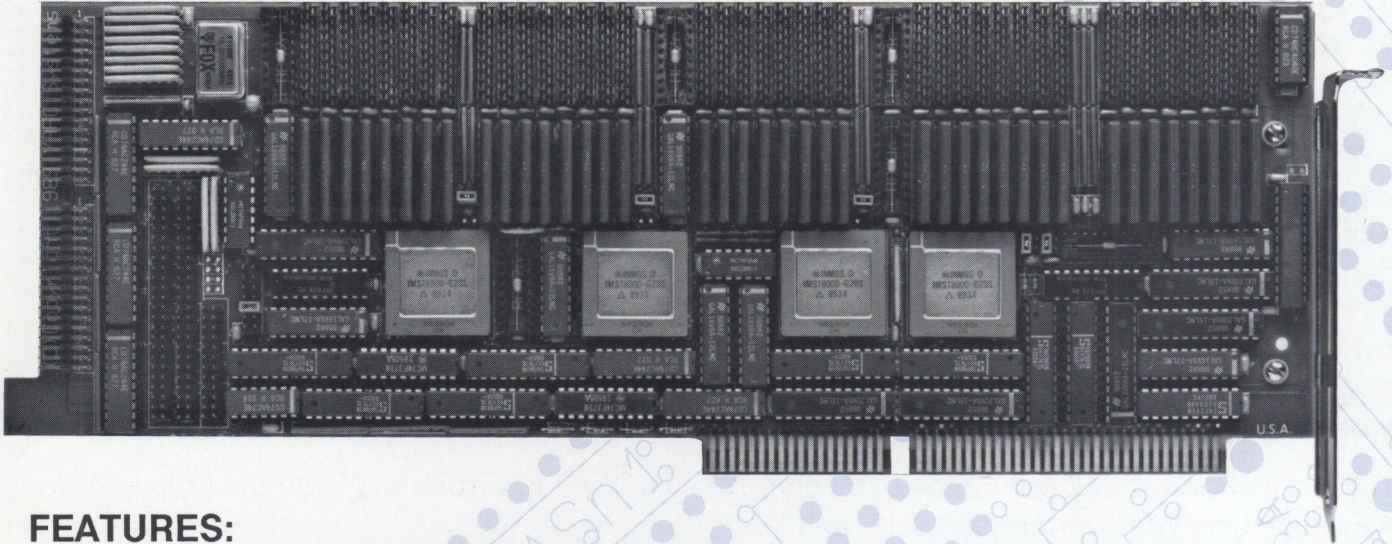




Yarc Systems Corporation

ProTran™

PC-AT Coprocessor System



FEATURES:

- Complete T800 transputer based parallel processing system
- 20MHz or 25MHz versions, ZERO WAIT STATE PERFORMANCE
- Proprietary HIGH SPEED PC BUS INTERFACE; peak I/O speed exceeds 1 MB/sec
- INMOS B004 Compatible mode - runs all standard B004 software
- Proprietary pin-field array allows interconnection of links and control signals with a pre-configured header - no dangling cables to deal with
- Advanced Technology offers:
 - Up to 40 megabytes of full speed RAM on a single AT board
 - 1 to 4 transputers per board, with link adaptor
- Proprietary memory design uses innovative multibank and interleaving technologies (pioneered on YARC's RISC products) to simultaneously achieve zero wait state performance and low cost
- Uses DOS operating system, for transparent operation
- Comprehensive software tools, including compilers, operating systems and communication protocols
- All boards tested and burnt-in at high temperatures
- Full 1 year warranty, with YARC's unrivalled after sales support.

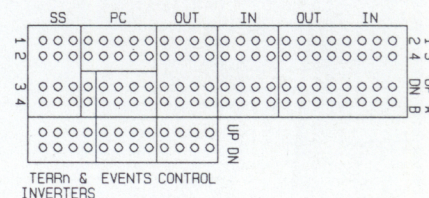
Even though you didn't ask, YARC = Yet Another Ruddy Coprocessor

GENERAL

The ProTran brings to the transputer VAR, OEM or end user a reliable platform for shipping and developing applications software. YARC has used its coprocessor interface expertise to produce a board that is not only compatible with all B004 software, but is also able to achieve the full I/O potential of the transputer's links onto the AT bus (over 1 megabyte per second, single link).

Each ProTran board can be equipped with 1 to 4 transputers. The root transputer can be configured with 1,2,4,8 or 16 megabytes of DRAM. Each of the other three can be configured with 1,2,4 or 8 megabytes. All configurations give zero wait state performance.

All links, event inputs and subsystem control signals are fed to a proprietary pin-field array (see illustration). A daughter board, customized to your application, is plugged over the pinfield to correctly configure each board you ship. There is no possibility of misconnected links or of cables loosening during shipment. Board to board interconnects are performed with a 34 pin standard ribbon cable (same cable as on a floppy disk drive). Both outputs and inputs to the cable are fully buffered. In prototype, wire wrap may be used to interconnect the transputers.



WARRANTY

Thirty day money back guarantee if not completely satisfied (for prepaid orders). Software Support Available. One year warranty on parts and labour

SOFTWARE

- Computer Supported** Any IBM™ PC-AT or 386 compatible.
- Operating System** The Operating System is the standard host MSDOS or PCDOS. All filesystem and operator interaction is achieved via DOS, transparent to the user.
- Multiple Processors** Up to 16 transputers may be interconnected, in modified 'hypercube' configuration, using the 34 pin ribbon cable interconnects. With reduced communications (one input and one output link pair per node) up to 32 may be interconnected (if the PC will take 8 add-in boards or if an expansion chassis is utilized).

HARDWARE

- CPU** T800 operating at 20MHz or 25MHz.
- FPU** Internal in the T800 transputer
- Dimensions** IBM-AT slot form factor.
- Power Requirements** 5 Volts +/- 5%. Each card draws 10 watts (max), dependent on the RAM configuration and executing software.
- Construction** High reliability six layer printed circuit board. Special bypass capacitors under chips enhance reliability and minimize RFI radiation.
- Operating Environment** 0 to 50°C

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