

## TVME8300 High Performance PowerPC based IndustryPack® Carrier

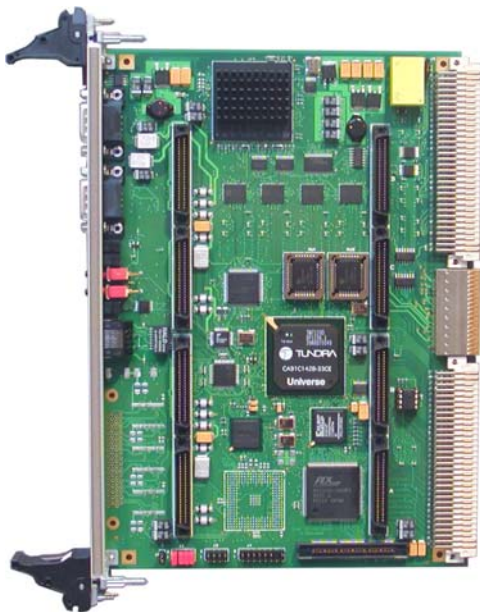
### Application Information

The TVME8300 VMEbus CPU board is based on the high integrated MPC8245 Power PC microprocessor with a G2 MPC603e CPU core, a powerful Memory controller and PCI interface.

The TVME8300 provides four IndustryPack slots with VME64x backplane I/O, Fast Ethernet, FLASH memory, and NVRAM/RTC.

The combination of the MPC8245 processor and the IndustryPack slots provides a powerful CPU and a modular I/O solution for applications in process control, telecommunication, medical systems and traffic control.

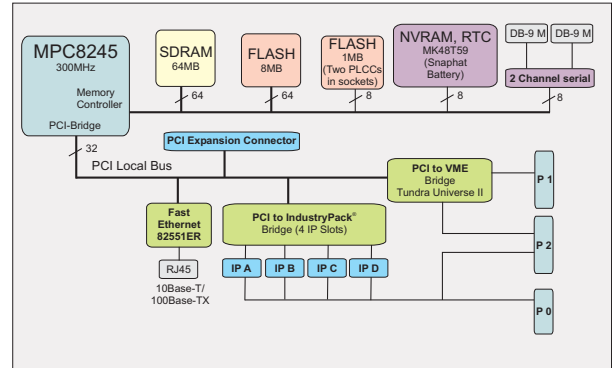
Software support for the TVME8300 CPU board is available for VxWorks, Linux, and LynxOS. A PMON Bug Monitor is installed on the TVME8300.



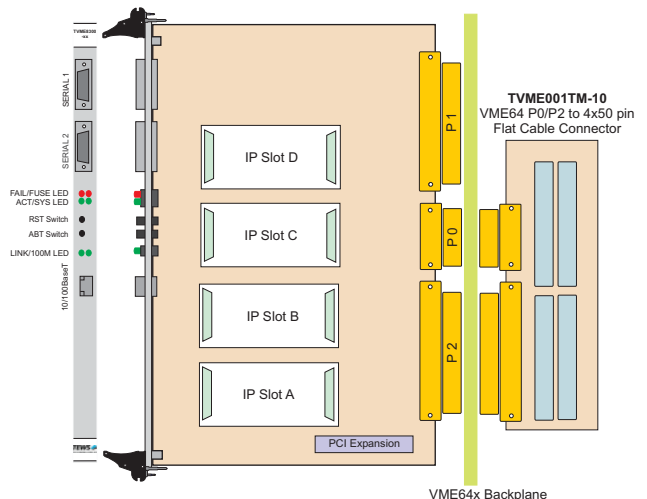
For First-Time-Buyers the Engineering Documentation TVME8300-ED is recommended. The Engineering Documentation includes TVME8300-DOC, schematics and data sheets of TVME8300.

Two Transition Modules are available for easy access to all IP I/O lines from the VME64x P0 and P2 connector. The TVME001-TM provides four 50 pin ribbon cable connectors without front panel and the TVME002-TM provides four HD50 SCSI-2 type connectors located in the EMI front panel.

### Technical Information



- MPC8245 CPU: 300 MHz PowerPC G2 Core, 16 KB / 16 KB L1-Cache, four programmable timers
- 64 MB SDRAM
- Two 32-pin PLCC/CLCC sockets for up to 1 MB firmware FLASH memory
- 8 MB FLASH memory
- Four IndustryPack slots (VME64x backplane I/O)
- PCI Expansion Card Connector (e.g. for TVME230 IP Expansion Card or Motorola PMC-Span)
- Fast Ethernet interface (32 bit PCI DMA)
- 8 KB NVRAM/RTC (exchangeable battery)
- Two asynchronous RS232 ports
- On board debug monitor
- A32/D32/BLT64 VME bus Master/Slave interface with system controller function, high performance DMA supports VMEbus D64 and 32 bit PCI local bus memory burst, 4-Level requester, 7-Level interrupter and 7-Level VME bus interrupt handler
- Operating temperature range 0°C to 55°C forced air cooling



### Order Information

#### RoHS Compliant

**TVME8300-10R** MPC8245-300 MHz, 64 MB SDRAM, 1 + 8 MB Flash, Fast Ethernet, IndustryPack backplane I/O, IEEE1101 Handles

#### None RoHS Compliant

TVME8300-10 None RoHS compliant version of TVME8300-10R

#### Documentation

**TVME8300-DOC** User Manual, includes documentation for PMON Bug Monitor

**TVME8300-ED** Engineering Documentation (TVME8300-DOC; Schematics; Assembly Drawing; Data sheets)

#### Software

**TVME8300-SW-40** VxWorks Board Support Package (includes VxWorks IP Carrier Software Support)

**TVME8300-SW-70** LynxOS Board Support Package (includes LynxOS IP Carrier Software Support)

**TBSP001-SW-80** Linux Board Support Package (includes Linux IP Carrier Software Support)

For other operating systems please contact TEWS.

#### Related Products

**TVME001-TM** Transition Module for VME64x, all IP I/O lines accessible via four 50 pin ribbon cable connectors, no front panel

**TVME002-TM** Transition Module for VME64x, all IP I/O lines accessible via four HD50 SCSI-2 type connectors mounted in 6U EMI front panel

**TVME230** PCI Expansion Card for 4 IndustryPacks, IEEE1101 Handles or Standard Handles