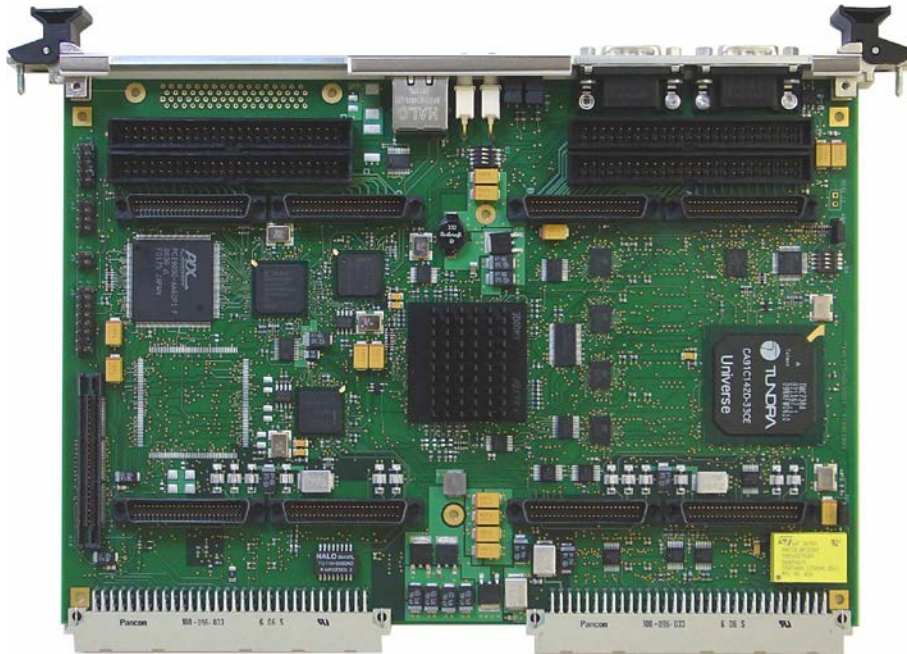


## TVME8240A High Performance PowerPC based IndustryPack® Carrier



### Application Information

The TVME8240A VMEbus CPU board is based on the high integrated MPC8245 Power PC microprocessor with an MPC603e CPU core, a powerful Memory controller and PCI interface.

The TVME8240A provides 4 IndustryPack slots with front I/O, NVRAM/RTC, Fast Ethernet, and FLASH memory.

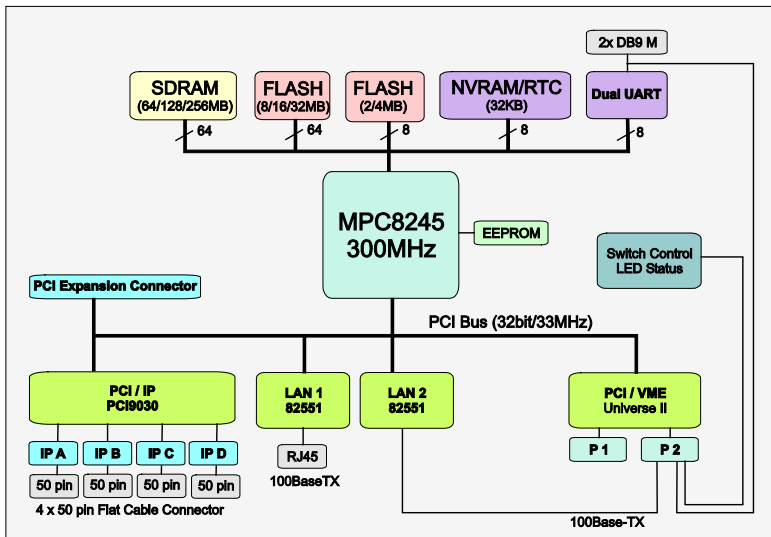
The combination of an MPC8245 processor and IndustryPack slots provide a powerful CPU and a modular I/O solution for applications in process control, telecommunication, medical systems and traffic control.

Software support for the TVME8240A CPU board is available for VxWorks, Linux, LynxOS, and OS-9. A PMON Bug Monitor is installed on the TVME8240A.

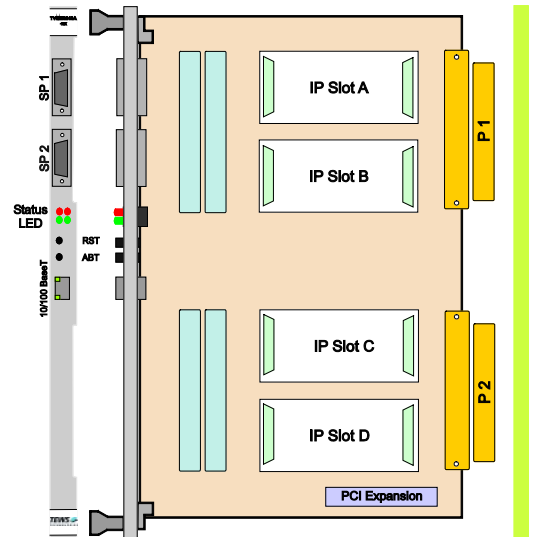
### Technical Information

- MPC8245 CPU: 300 MHz PowerPC 603e Core, 16 KB / 16 KB L1-Cache, four programmable timers
- 64 MB or 256 MB SDRAM (64 bit wide)
- 2 MB boot FLASH memory (firmware) (4 MB max option)
- 8 MB or 32MB FLASH memory (64 bit wide)
- Four IndustryPack slots (front panel I/O / double sized modules supported)
- PCI Expansion Connector (33 MHz, 32 bit PCI / supports TVME230 IP Expansion Card or Motorola PMC-Span)
- 10/100 Mbit/s Ethernet interface with 32 bit PCI DMA
- 32 KB NVRAM and TOY clock with exchangeable battery
- One asynchronous full modem RS232 port, one asynchronous simple RS232/RS422 port (programmable)
- 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.

## The Embedded I/O Company



Block Diagram



Board Layout

### Order Information

#### RoHS Compliant

<b>TVME8240A-11R</b>	6U, MPC8245-300MHz, 64 MB SDRAM, 2+8 MB Flash, 4 Slot IndustryPack Front I/O, 2 x 10/100 Ethernet
<b>TVME8240A-21R</b>	6U, MPC8245-300MHz, 256 MB SDRAM, 2+32 MB Flash, 4 Slot IndustryPack Front I/O, 2 x 10/100 Ethernet

For the availability of non-RoHS compliant (lead solder) products please contact TEWS.

#### Documentation

<b>TVME8240A-DOC</b>	User Manual
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#### Software

<b>TVME8240A-SW-10</b>	OS-9 Board Support Package
<b>TVME8240A-SW-40</b>	VxWorks Board Support Package
<b>TVME8240A-SW-70</b>	LynxOS Board Support Package
<b>TBSP001-SW-80</b>	Linux Board Support Package

For other operating systems please contact TEWS.

#### Related Products

<b>TVME230</b>	6U 4 Slot IndustryPack Expansion Card for VMEbus CPU's, IEEE1101 Handles or Standard Handles
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