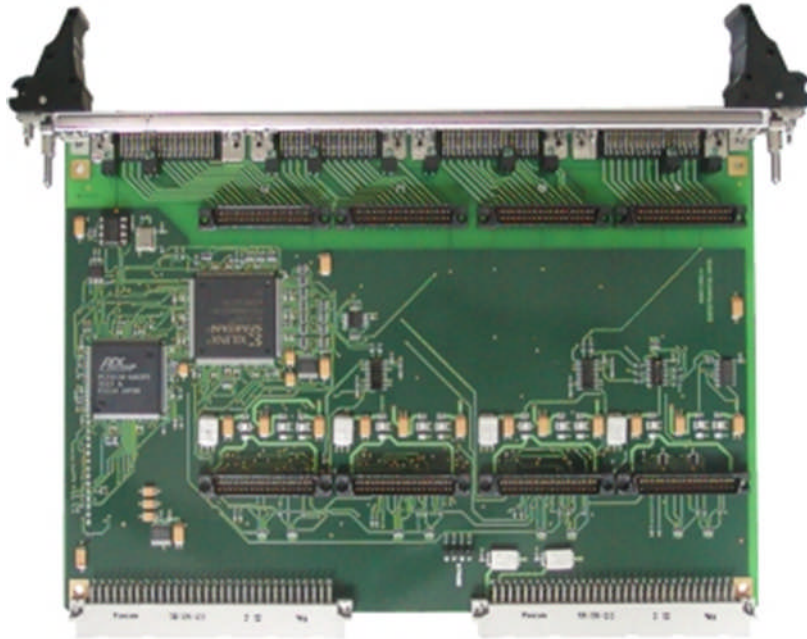# TEWS TECHNOLOGIES

The Embedded I/O Company

TVME230   PCI Expansion Card for 4 IndustryPack®

Application Information

The TVME230 is a 6U Expansion Card for VMEbus CPU's with a PCI Expansion Connector like the TVME8240A, TVME8300, TVME8400, MVME5500, MVME5100, MVME3100, MVME2300 or MVME2400. It provides access to four single-size or two double-size IndustryPack (IP) modules via the PCI Expansion Connector. This adds 200 additional I/O lines to the CPU, used to build modular, flexible and cost effective I/O solutions for applications in process control, medical systems, telecommunication and traffic control.

For improved EMI protection, four HD50 SCSI-2 type connectors are mounted in the EMI front panel of the TVME230 and provide access to all IP I/O lines. Status indicators for IP access, +5V and +/-12V are provided in the front panel.

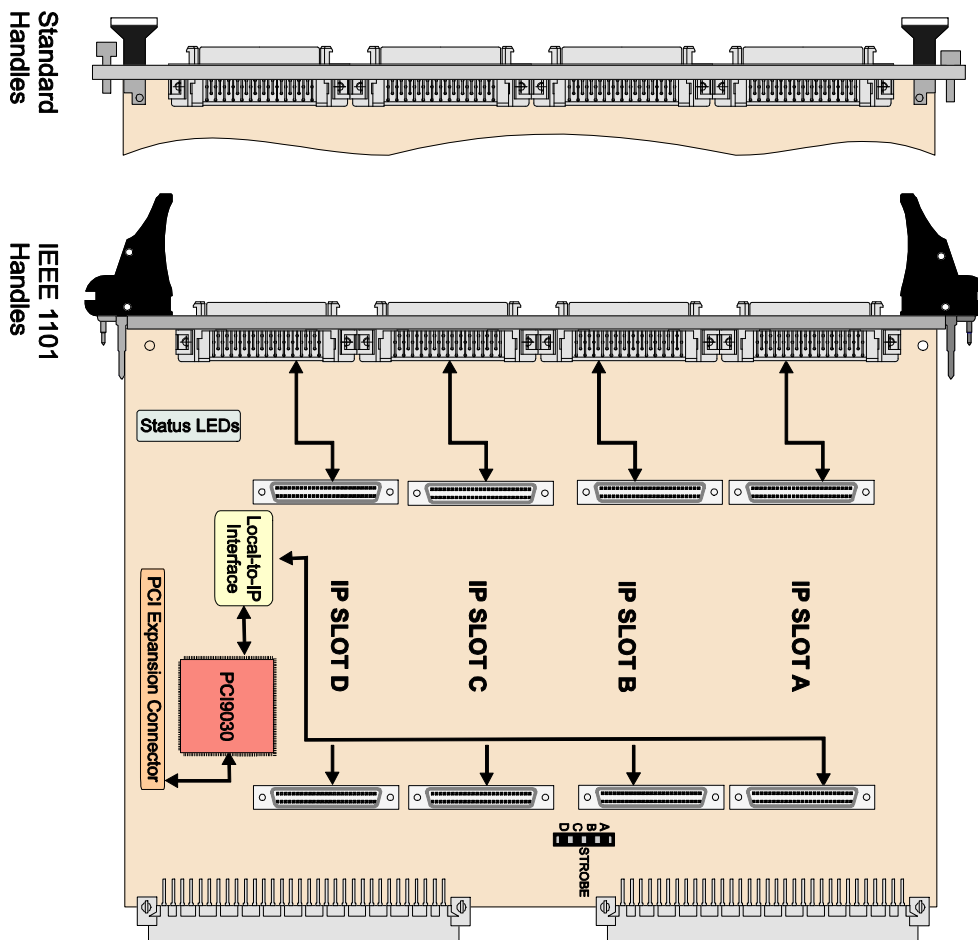As an order option, the TVME230 is available with standard VME handles or IEEE1101 handles.

The TVME230 can operate with 3.3V and 5.0V PCI I/O signaling voltage.

All IP interrupt request lines are mapped to PCI INTA. For fast interrupt source detection, the TVME230 provides a special IP interrupt status register.

The IP power lines are fuse protected by self healing fuses and RF filtered. The operating temperature range is -40°C to +85°C.

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Technical Information

- Form Factor: VMEbus board, 6U
  - Board size: 160 mm x 233.35 mm
- PCI 2.2 compliant interface
  - PCI Interface : 33 MHz; 32 bit
  - 5V and 3.3V PCI I/O signaling voltage
- ANSI/VITA 4-1995 compliant interface to IndustryPack modules
  - IndustryPack slots: 4 single-size or 2 double-size
  - IP Power: +5V, +12V and -12V are taken from the VMEbus backplane
  - 8/32 MHz interface, no DMA
  - 8 MByte memory space per IP

- Routing of all IP interrupts to PCI INTA, local interrupt status register
- I/O access: HD50 SCSI-2 type connector per IP, front panel I/O
- Status LED's
  - ACK LED for each IP module
  - +5V Power LED for each IP slot
  - +12V and –12V Power LED
- Self Healing fuses and RF-filtering on all IP power lines
- Operating temperature -40°C to +85°C

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Order Information

RoHS Compliant
TVME230-10R   6U 4 Slot IndustryPack Expansion Card for VMEbus CPU's, IEEE1101 Handles
TVME230-11R   6U 4 Slot IndustryPack Expansion Card for VMEbus CPU's, standard handles

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

Documentation
TVME230-DOC   User Manual

Software
CARRIER-SW-42 VxWorks Software Support (Legacy and VxBus-enabled Software Support)
CARRIER-SW-82 Linux IP Carrier Software Support
CARRIER-SW-95 QNX IP Carrier Software Support

For other operating systems please contact TEWS.

Related Products
TA301   Cable Kit for Modules with HD50 Connector