



VMEbus Modules

Data Sheets of TEWS' VMEbus Modules

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About TEWS TECHNOLOGIES

TEWS TECHNOLOGIES is a leading solutions provider of embedded I/O and CPU products based on open architecture standards such as PMC, IndustryPack® (IP), CompactPCI, standard PCI, VME, and AMC.

TEWS has more than 30 years of experience designing and building turn-key embedded interface solutions using the philosophy to listen and respond to our customers' needs.

Using this 'customer first' approach, TEWS has developed a large number of standard and custom products for applications in industrial control, telecommunication infrastructure, medical equipment, traffic control and aerospace/defense.

TEWS' line of embedded I/O solutions is available worldwide through a global network of distributors.

Quality Assurance / Warranty

TEWS operates three subsidiaries to meet global demand for pre and post sales support, reduced development time, long term product availability, and complete product lifecycle management.

TEWS is committed to continuously improving the quality of our products and services. As a reflection of our commitment to quality, TEWS has implemented and received ISO9001:2000 certification.

All TEWS' products feature a five-year limited warranty.



RoHS / WEEE Compliance

TEWS TECHNOLOGIES believes in conducting business in a manner that respects the environment and consequently has embraced the RoHS regulations of the European Community.

TEWS now produces RoHS-compliant versions of our products, provided all required components are available RoHS-compliant. Products which do not have RoHS-compliant components available may be redesigned to meet the regulations on a case-by-case basis. Redesigned product will match the original product in form, fit and/or function whenever possible.

Non-compliant products will continue to be available for all applications which are exempt from the RoHS directives and have a continuing requirement for leaded solder.

More information regarding RoHS compliance is available on the specific product pages at www.tews.com.

Software support

Software support is a critical and defining component of the TEWS' I/O product offering. Our modular hardware designs are coupled with extensive software drivers and support for most major real-time and server operating systems such as VxWorks, Windows XP/XPE/2000, Linux, LynxOS, and QNX6. Supported CPU architectures are Intel, PowerPC and 68k (for IndustryPack only).

For IndustryPack carriers and modules, TEWS has developed a layered driver concept that includes both a carrier driver layer and an IP module driver layer.

All TEWS' IndustryPack carriers are supported directly by the carrier driver, and a generic driver is included for integration of third party products.

A key element of our software is our support staff. All TEWS' support engineers are professionally trained to ensure in-depth support for software drivers and integration.



VMEbus Modules

VMEbus technology is well-established for industrial applications and automation technology with high-security standards, infinite processor performance requirements, and real-time capability. A wide range of technical and commercial aspects have contributed to the unique success of the VMEbus concept. Among these aspects is the international open standard nature of VME, a mechanical structure based on classic 19-inch rackmount concepts, a choice of 3U and 6U Eurocard sizing, a wide range of COTS (commercial off-the-shelf) products, wide vendor base, and continued improvement to the VME standard.

After more than two decades on the market, VMEbus has become a proven and reliable industry standard for many industrial, aerospace/defense, and communications applications.

Since 1985, TEWS TECHNOLOGIES has offered VME products. At that time, TEWS recognized the need for a standard I/O product offering, and with Motorola's backing of the bus architecture, VME was the natural choice. Our experience in the modular I/O market grew from our work with VME. In

addition to our well known modular I/O solutions, we offer VME IndustryPack carriers, VME PowerPC CPU designs, and general VME-based industrial I/O solutions. TEWS is committed to long-term support of the VMEbus, and will continue to announce VME products in the near future.

If you wish to inquire about custom VME designs, please contact TEWS directly at our offices in Germany or the United States. TEWS works closely with OEM and government customers to deliver accelerated time to market, long-term product availability and comprehensive product lifecycle management -- from the design stage through manufacturing, testing and beyond to post-sales support.

In addition to our well known IP modules, we offer a complete line of PCI, Compact PCI, and numerous PMC modules off-the-shelf.

All TEWS modules feature a five-year limited warranty, and many are offered standard in extended temperature (-40°C to +85°C). Software drivers for VxWorks, LynxOS, LiNUX, QNX, and Windows XP/XPE/2000 are available.

For more information go to www.tews.com.



TVME200 VMEbus Carrier for 4 IndustryPacks®

Application Information

The TVME200 is 6U VMEbus Carrier for up to 4 singlesize or 2 double-size IndustryPack (IP) modules used to build modular, flexible and cost effective I/O solutions for applications in process control, medical systems, telecommunication and traffic control.



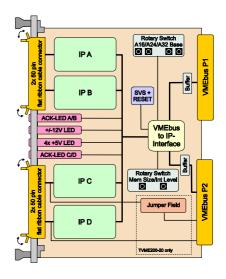
A set of 16-position rotary switches allows easy configuration of VME Short I/O and Memory addresses. Interrupt routing from the IP slots to the VME IRQ's can be done in two ways: programmable by software or selection of predefined sets by a rotary switch.

Four 50 pin 0.1 inch flat ribbon cable connectors mounted in the front panel of the TVME200 provide access to all IP I/O lines. Additional, on the TVME200-20 all I/O lines of 'IP D' are routed to VME P2 and 14 user selectable I/O lines of 'IP C' can be routed to VME P2 via a jumper field.

Status indicators for IP access, +5V and +/-12V are provided.

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

For First-Time-Buyers the Engineering Documentation TVME200-ED is recommended. The Engineering Documentation includes TVME200-DOC, schematics and data sheets of TVME200.



Technical Information

- O Form Factor: VMEbus Board, 6U
- O VMEbus Slave Interface:
 - O Short I/O: A16, D08/16, size: 1 Kbyte
 - Standard memory: A24, D08/16
 - Size: programmable, 32 Kbytes to 2 Mbytes per IP
 - O Extended memory: A32, D08/16
 - Size: fixed, 8 Mbytes per IP
 - O Interrupts: IRQ1-7
- O ANSI/VITA 4-1995 compliant interface to IndustryPack modules
 - O IndustryPack slots: Four single-size or two double-size with front panel I/O
 - O 8 MHz interface, no DMA
 - O Routing of IP interrupt levels to VME IRQ1-7: programmable by software or selection of predefined sets by a rotary switch
 - O I/O access: 50 pin 0.1 inch flat ribbon cable connector per IP mounted in front panel
 - Rear I/O of 'IP C' and 'IP D' (TVME200-20 only)
- O Status LED's
 - O ACK LED for each IP module
 - +5V Power LED for each IP slot
 - O +12V and -12V Power LED
- Self healing fuses and RF-filtering on all IP power lines
- O Operating temperature -40°C to +85°C

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Order Information

TVME200-10 VMEbus Carrier for 4 IP modules (6U);

Front panel I/O, Standard Handles

TVME200-10R RoHS compliant version of TVME200-10

TVME200-20 VMEbus Carrier for 4 IP modules (6U);

Front panel I/O and Rear I/O of 'IP C' and 'IP D', Standard Handles

TVME200-20R RoHS compliant version of TVME200-20

TVME200-DOC User Manual

TVME200-ED Engineering Documentation (TVME200-

DOC, Schematics, Assembly Drawing,

Data Sheets)

TA305-10R Cable Kit for Modules with 50 pin ribbon

cable connector (RoHS compliant)

CARRIER-SW-42 VxWorks IP Carrier Software

Support

CARRIER-SW-65 Windows XP/XPE/2000 IP Carrier

Software Support

CARRIER-SW-72 LynxOS IP Carrier Software

Support

CARRIER-SW-82 Linux IP Carrier Software Support

CARRIER-SW-95 QNX 6 IP Carrier Software

Support

For other operating systems please contact TEWS.

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TVME201 VMEbus Carrier for 4 IndustryPacks®

Application Information

The TVME201 is 6U VMEbus Carrier for up to four singlesize or two double-size IndustryPack (IP) modules allowing to build up modular, flexible and cost effective I/O solutions for all kinds of applications like 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 TVME201 and provide access to all IP I/O lines. Status indicators for IP access, +5V and +/-12V are provided in the front panel.



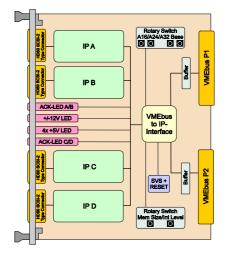
A set of 16-position rotary switches allows easy configuration of VME Short I/O and Memory addresses. Interrupt routing from the IP slots to the VME IRQ's can be done in two ways: programmable by software or selection of predefined sets by a rotary switch.

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

For First-Time-Buyers the Engineering Documentation TVME201-ED is recommended. The Engineering Documentation includes TVME201-DOC, schematics and data sheets of TVME201.

Technical Information

- Form Factor: VMEbus board, 6U
- O VMEbus slave interface:
- O Short I/O: A16, D08/16, size: 1 Kbytes
- O Standard Memory: A24, D08/16
- O Size: programmable, 32 Kbytes to 2 Mbytes per IP
- O Extended Memory: A32, D08/16
- O Size: fixed, 8 Mbytes per IP
- O Interrupts: IRQ1-7
- ANSI/VITA 4-1995 compliant interface to IndustryPack modules
- IndustryPack slots: Four single-size or two doublesize with front panel I/O
- O 8 MHz interface, no DMA
- Routing of IP Interrupt Levels to VME IRQ1-7: programmable by software or selection of predefined sets by a rotary switch
- I/O access by HD50 SCSI-2 type connector per IP mounted in EMI front panel
- O EMI front panel
- O Status LED's
- O ACK LED for each IP module
- O +5V Power LED for each IP slot
- O +12V and -12V Power LED
- Self Healing fuses and RF-filtering on all IP power lines
- O Operating Temperature -40°C to +85°C



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Order Information

TA301-10

TVME201-10 VMEbus Carrier for 4 IP modules

6U);

Front panel I/O, Standard Handles

TVME201-10R RoHS compliant version of

TVME201-10

TVME201-DOC User Manual

TVME201-ED Engineering Documentation

(TVME201-DOC, Schematics, Assembly Drawing, Data Sheets)

Cable Kit for modules with HD50

connector

TA301-10R RoHS compliant version of TA301-10

CARRIER-SW-42 VxWorks IP Carrier Software Support

CARRIER-SW-65 Windows XP/XPE/2000 IP Carrier

Software Support

CARRIER-SW-72 LynxOS IP Carrier Software Support
CARRIER-SW-82 Linux IP Carrier Software Support
CARRIER-SW-95 QNX 6 IP Carrier Software Support

For other operating systems please contact TEWS.



TVME202 VMEbus Carrier for 4 IndustryPacks®

Application Information

The TVME202 is 6U VMEbus Carrier for up to 4 singlesize or 2 double-size IndustryPack (IP) modules provides modular, flexible and cost effective I/O solutions for applications in process control, medical systems, telecommunication and traffic control.

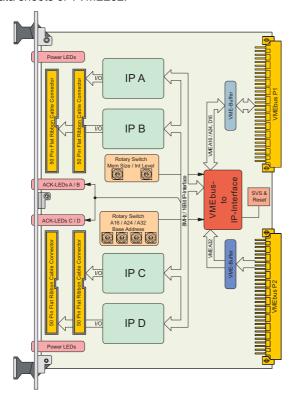
A set of 16-position rotary switches allows easy configuration of VME Short I/O and Memory addresses. Interrupt routing from the IP slots to the VME IRQ's are programmable by software or can be selected from predefined sets by a rotary switch.

Four 50 pin 0.1 inch flat ribbon cable connectors mounted on the TVME202 provide front I/O access to all IP I/O lines.

Status indicators for IP access, +5V and +/-12V are provided.

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

For First-Time-Buyers the Engineering Documentation TVME202-ED is recommended. The Engineering Documentation includes TVME202-DOC, schematics and data sheets of TVME202.



Technical Information

- Form Factor: VMEbus Board, 6U
- O VMEbus Slave Interface:
 - O Short I/O: A16, D08/16, size: 1 Kbyte
 - O Standard memory: A24, D08/16
 - Size: programmable, 32 Kbytes to 2 Mbytes per IP
 - O Extended memory: A32, D08/16
 - Size: fixed, 8 Mbytes per IP
 - O Interrupts: IRQ1-7
- ANSI/VITA 4-1995 compliant interface to IndustryPack modules
 - O IndustryPack slots: Four single-size or two double-size with front panel I/O
 - 8 MHz interface, no DMA
 - O Routing of IP interrupt levels to VME IRQ1-7: programmable by software or selection of predefined sets by a rotary switch
 - O I/O access: 50 pin 0.1 inch flat ribbon cable connector per IP
- Status LED's
 - ACK LED for each IP module
 - O +5V Power LED for each IP slot
 - O +12V and -12V Power LED
- Self healing fuses and RF-filtering on all IP power lines
- O Operating temperature -40°C to +85°C

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03/2007



Order Information

TVME202-10 VMEbus Carrier for 4 IP modules (6U);

Front panel I/O, Standard Handles

TVME202-10R RoHS compliant version of TVME202-10

TVME202-DOC User Manual

TVME202-ED Engineering Documentation (TVME202-

DOC, Schematics, Assembly Drawing,

Data Sheets)

TA305-10R Cable Kit for Modules with 50 pin ribbon

cable connector (RoHS compliant)

CARRIER-SW-42 VxWorks IP Carrier Software

Support

CARRIER-SW-65 Windows XP/XPE/2000 IP Carrier

Software Support

CARRIER-SW-72 LynxOS IP Carrier Software

Support

CARRIER-SW-82 Linux IP Carrier Software Support

CARRIER-SW-95 QNX 6 IP Carrier Software

Support

For other operating systems please contact TEWS.

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TVME210 VMEbus Carrier for 2 IndustryPacks®

Application Information

The TVME210 is a 3U VMEbus Carrier for up to two single-size or one double-size IndustryPack (IP) modules allowing to build up modular, flexible and cost effective I/O solutions for all kinds of applications like process control, medical systems, telecommunication and traffic control.

Two 50 pin 0.1 inch flat ribbon cable connectors mounted in the front panel of the TVME210 provide access to all IP I/O lines. Status indicators for IP access, +5V and +/-12V are provided.



TVME210-10



TVME210-11

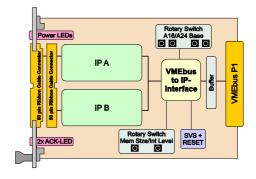
A set of 16-position rotary switches allows easy configuration of VME Short I/O and Memory addresses. Interrupt routing from the IP slots to the VME IRQ's can be done in two ways: programmable by software or selection of predefined sets by a rotary switch.

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

For First-Time-Buyers the Engineering Documentation TVME210-ED is recommended. The Engineering Documentation includes TVME210-DOC, schematics and data sheets of TVME210.

Technical Information

- Form Factor: VMEbus board, 3U
- O VMEbus Slave Interface:
 - O Short I/O: A16, D08/16, size: 512 bytes
 - O Standard Memory: A24, D08/16
 - O Size: programmable, 32 Kbytes to 4 Mbytes per IP or 2 Mbytes to 8 Mbytes for one IP
 - O Interrupts: IRQ1-7
- ANSI/VITA 4-1995 compliant interface to IndustryPack modules
 - O IndustryPack slots: Two single-size or one double-size with front panel I/O
 - O 8 MHz interface, no DMA
 - Routing of IP Interrupt Levels to VME IRQ1-7: programmable by software or selection of predefined sets by a rotary switch
 - O I/O access: 50 pin 0.1 inch flat ribbon cable connector (1x90°, 1x180°) per IP mounted in front panel
- Status LED's
 - ACK LED for each IP module
 - O +5V Power LED for each IP slot
 - O +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

TVME210-10 VMEbus Carrier for 2 IP modules (3U),

front panel I/O, Standard Handles, 3U

front panel

TVME210-10R RoHS compliant version of TVME210-10

TVME210-11 VMEbus Carrier for 2 IP modules (3U),

front panel I/O, Standard Handles, 6U

front panel

TVME210-11R RoHS compliant version of TVME210-11

TVME210-DOC User Manual

TVME210-ED Engineering Documentation (TVME210-

DOC, Schematics, Assembly Drawing,

Data Sheets)

TA305-10R Cable Kit for modules with 50 pin

ribbon cable connector (RoHS

compliant)

CARRIER-SW-42 VxWorks IP Carrier Software Support

CARRIER-SW-65 Windows XP/XPE/2000 IP Carrier

Software Support

CARRIER-SW-72 LynxOS IP Carrier Software Support Linux IP Carrier Software Support

CARRIER-SW-95 QNX 6 IP Carrier Software Support

For other operating systems please contact TEWS.



TVME211 VMEbus Carrier for 2 IndustryPacks®

Application Information

The TVME211 is a 3U VMEbus Carrier for up to two singlesize or one double-size IndustryPack (IP) modules allowing to build up modular, flexible and cost effective I/O solutions for all kinds of applications like process control, medical systems, telecommunication and traffic control.

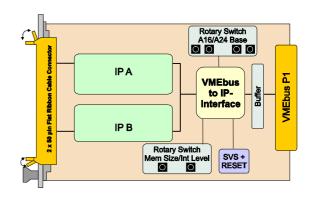
Two 50 pin 0.1 inch flat ribbon cable connectors mounted in the front panel of the TVME211 provide access to all IP I/O lines.

A set of 16-position rotary switches allows easy configuration of VME Short I/O and Memory addresses. Interrupt routing from the IP slots to the VME IRQ's can be done in two ways: programmable by software or selection of predefined sets by a rotary switch.

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



For First-Time-Buyers the Engineering Documentation TVME211-ED is recommended. The Engineering Documentation includes TVME211-DOC, schematics and data sheets of TVME211.



Technical Information

- Form Factor: VMEbus board, 3U
- VMEbus Slave Interface:
 - O Short I/O: A16, D08/16, size: 512 bytes
 - O Standard Memory: A24, D08/16
 - Size: programmable, 32 Kbytes to 4 Mbytes per IP or 2 Mbytes to 8 Mbytes for one IP
 - O Interrupts: IRQ1-7
- ANSI/VITA 4-1995 compliant interface to IndustryPack modules
 - IndustryPack slots: Two single-size or one doublesize with front panel I/O
 - 8 MHz interface, no DMA
 - Routing of IP Interrupt Levels to VME IRQ1-7: programmable by software or selection of predefined sets by a rotary switch
 - I/O access: 50 pin 0.1 inch flat ribbon cable connector (stacked version) per IP mounted in front panel
- O Self Healing fuses and RF-filtering on all IP power lines
- O Operating temperature -40°C to +85°C

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(TVME211-DOC, Schematics, Assembly Drawing, Data Sheets)

Order Information

TA305-10 Cable Kit for modules with 50 pin TVME211-10 VMEbus Carrier for 2 IP modules (3U),

ribbon cable connector front panel I/O, Standard Handles, 3U

front panel TA305-10R

RoHS compliant version of TA305-10 TVME211-10R RoHS compliant version of

TVME211-10 **CARRIER-SW-42** VxWorks IP Carrier Software Support VMEbus Carrier for 2 IP modules (3U), TVME211-11 Windows XP/XPE/2000 IP Carrier **CARRIER-SW-65**

front panel I/O, Standard Handles, 6U Software Support

front panel **CARRIER-SW-72** LynxOS IP Carrier Software Support TVME211-11R RoHS compliant version of **CARRIER-SW-82**

Linux IP Carrier Software Support TVME211-11 **CARRIER-SW-95** QNX 6 IP Carrier Software Support

TVME211-DOC User Manual For other operating systems please contact TEWS. TVME211-ED **Engineering Documentation**

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TVME220 VME64x Carrier for 4 IndustryPacks®

Application Information

The TVME220 is a 6U VMEbus carrier for up to 4 singlesize or two double-size IndustryPack (IP) modules used to build modular, flexible and cost effective I/O solutions for applications in process control, medical systems, telecommunication and traffic control.

The TVME220 uses VME64x-compliant connectors to increase the quantity of rear I/O connections beyond that of standard VME. All of the 200 I/O lines from the 4 IP slots are available at the VME64x connectors P0 and P2. The I/O mapping is compliant to the ANSI/VITA 4.1-1996 standard.

Although the rear connectors are VME64x, the electrical interface is standard VME, so that nearly all CPU products still have full access to the IP modules mounted on the TVME220.

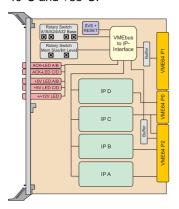
Status indicators for IP access, +5V and +/-12V are provided in the EMI shielded front panel.

A set of 16-position rotary switches allows easy configuration of VME Short



I/O and memory addresses. Interrupt routing from the IP slots to the VME IRQ's can be done in two ways: programmable by software or selection of predefined sets by a rotary switch.

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



Two Transition Modules, TVME001-TM-10 and TVME002-TM-10 are available for easy access to all IP I/O lines.

For First-Time-Buyers the Engineering Documentation TVME220-ED is recommended. The Engineering Documentation includes TVME220-DOC, schematics and data sheets of TVME220.

Technical Information

- Form Factor: VME64x-Board, 6U
- O VME64 (ANSI/VITA 1-1994) and VME64x (ANSI/VITA 1.1-1997) compliant Slave Interface
 - O Short I/O: A16, D08/16, size: 1 Kbytes
 - O Standard Memory: A24, D08/16
 - O Size: 32 Kbytes to 2 Mbytes per IP
 - Extended Memory: A32, D08/16
 - O Size: fixed, 8 Mbytes per IP
 - O Interrupts: IRQ1-7
- ANSI/VITA 4-1995 compliant interface to IndustryPack modules
 - IndustryPack slots: Four single-size or two doublesize with back I/O via P0 and P2
 - O 8 MHz interface, no DMA
 - Routing of IP Interrupt Levels to VME IRQ1-7: programmable by software or selection of predefined sets by a rotary switch
- ANSI/VITA 4.1-1996 compliant mapping of IP I/O lines to VME64x connectors P0 and P2
- O Status LED's:
 - O ACK LED for each IP module
 - O +5V Power LED for each IP slot
 - O +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

TVME220-10 VME64x VMEbus Carrier for 4 IP

modules (6U), Back I/O on P0 and

P2, EMI front panel

TVME220-10R RoHS compliant version of

TVME220-10

TVME220-DOC User Manual

TVME220-ED Engineering Documentation

(TVME220-DOC, Schematics, Assembly Drawing, Data Sheets)

TVME001-TM-10 Transition Module; all IP I/O lines

accessible via four 50 pin ribbon cable connectors, no front panel

TVME001-TM-10R RoHS compliant version of

TVME001-TM-10

TVME002-TM-10 Transition Module; all IP I/O lines

accessible via four HD50 SCSI-2 type connectors mounted in 6U EMI front

panel

TVME002-TM-10R RoHS compliant version of

TVME002-TM-10

CARRIER-SW-42 VxWorks IP Carrier Software Support

CARRIER-SW-65 Windows XP/XPE/2000 IP Carrier

Software Support

CARRIER-SW-72 LynxOS IP Carrier Software Support
Linux IP Carrier Software Support
CARRIER-SW-95 QNX 6 IP Carrier Software Support

For other operating systems please contact TEWS.



PCI Expansion Card for 4 IndustryPack® **TVME230**

Application Information

The TVME230 is a 6U Expansion Card for VMEbus CPU's with a PCI Expansion Connector like the TVME8240, TVME8400, MVME5500, TVME8300, 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.

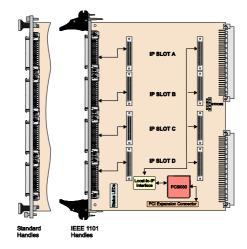
All IP interrupt request lines are mapped to PCI INTA. For fast interrupt source detection, the TVME230 provides a special IP interrupt status register.

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

For First-Time-Buyers the Engineering Documentation TVME230-ED is recommended. The Engineering Documentation includes TVME230-DOC, schematics and data sheets of TVME230.

Technical Information

- Form Factor: VMEbus board, 6U
 - O Board size: 160 mm x 233.35 mm
- PCI 2.2 compliant interface
 - O PCI Interface: 33 MHz; 32 bit
 - O 5V and 3.3V PCI I/O signaling voltage
- O ANSI/VITA 4-1995 compliant interface to IndustryPack
 - O 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
 - O 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
- O Status LED's
 - O ACK LED for each IP module
 - O +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

TVME230-10 PCI Expansion Card for 4 IP modules

(6U); Front panel I/O, IEEE1101 Handles

TVME230-10R RoHS compliant version of TVME230-10 **TVME230-11** PCI Expansion Card for 4 IP modules

(6U); Front panel I/O, standard handles

TVME230-11R RoHS compliant version of TVME230-11

TVME230-DOC User Manual

TVME230-ED Engineering Documentation (TVME230-

DOC, Schematics, Assembly Drawing,

Data Sheets)

TA301-10 Cable Kit for modules with HD50

connector

TA301-10R RoHS compliant version of TA301-10

CARRIER-SW-42 VxWorks IP Carrier Software

Support

CARRIER-SW-65 Windows XP/XPE/2000 Software

Support

CARRIER-SW-72 LynxOS IP Carrier Software

Support

CARRIER-SW-82 Linux IP Carrier Software Support

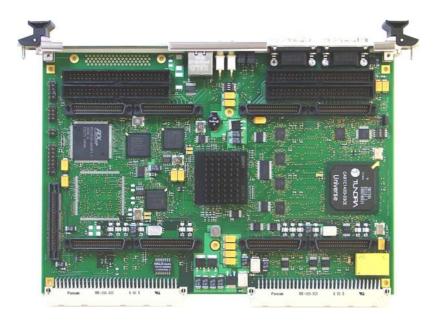
CARRIER-SW-95 QNX 6 IP Carrier Software

Support

For other operating systems please contact TEWS.



${f TVME8240A}$ High Performance PowerPC based IndustryPack $^{\circledR}$ 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.

For First-Time-Buyers the Engineering Documentation TVME8240A-ED is recommended. The Engineering Documentation includes TVME8240A-DOC, schematics and data sheets of TVME8240A.

Technical Information

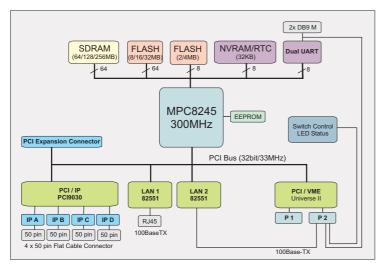
- O MPC8245 CPU: 300 MHz PowerPC 603e Core, 16 KB / 16 KB L1-Cache, four programmable timers
- O 64 MB or 256 MB SDRAM (64 bit wide)
- 2 MB boot FLASH memory (firmware) (4 MB max option)
- O 8 MB or 32MB FLASH memory (64 bit wide)
- Four IndustryPack slots (front panel I/O / double sized modules supported)
- O PCI Expansion Connector (33 MHz, 32 bit PCI / supports TVME230 IP Expansion Card or Motorola PMC-Span)
- O 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)
- O On board debug monitor
- O 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
- O Operating temperature range 0°C to 55°C forced air cooling.

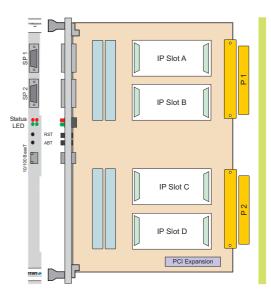
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TVME8240A





Block Diagram

Board Layout

Order Information

TVME8240A-11 MPC8245-300 MHz, 64 MB SDRAM, 2 + 8 MB Flash, Fast Ethernet front & back I/O,

4 IndustryPack slots with front panel I/O, Standard Handles

TVME8240A-11R RoHS compliant version of TVME8240A-11

TVME8240A-21 MPC8245-300 MHz, 256 MB SDRAM, 2 + 32 MB Flash, Fast Ethernet front & back I/O,

4 IndustryPack slots with front panel I/O, Standard Handles

TVME8240A-21R RoHS compliant version of TVME8240A-21

TVME8240A-DOC User Manual, includes documentation for PMON Bug Monitor

TVME8240A-ED Engineering Documentation (TVME8240A-DOC, schematics, assembly drawing, data sheets)

TVME230-10 PCI Expansion Card for 4 IndustryPacks, IEEE1101 Handles

TVME230-10R RoHS compliant version of TVME230-10

TVME230-11 PCI Expansion Card for 4 IndustryPacks, Standard Handles

TVME230-11R RoHS compliant version of TVME230-11

TVME230-DOC User Manual for TVME230

TVME230-ED Engineering Documentation for TVME230 (TVME230-DOC, schematics, data sheets)

TVME8240A-SW-10 OS-9 Board Support Package

TVME8240A-SW-40 VxWorks Board Support Package (includes VxWorks IP Carrier Software Support)

TVME8240A-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)

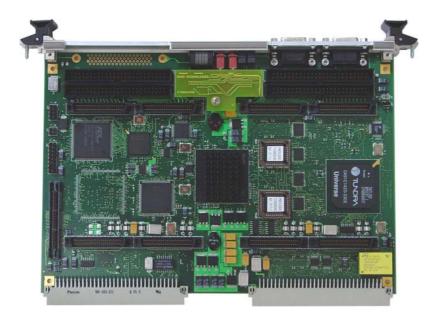
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TVME8240 High Performance PowerPC based IndustryPack[®] Carrier



Application Information

The TVME8240 VMEbus CPU board is based on the high integrated MPC8240 Power PC microprocessor with an MPC603e CPU core, a powerful DRAM controller and PCI interface.

The TVME8240 provides 4 IndustryPack slots with front I/O, NVRAM/RTC, Fast Ethernet, and FLASH memory.

The combination of an MPC8240 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 TVME8240 CPU board is available for VxWorks, Linux, LynxOS, and OS-9. A PMON Bug Monitor is installed on the TVME8240.

For First-Time-Buyers the Engineering Documentation TVME8240-ED is recommended. The Engineering Documentation includes TVME8240-DOC, schematics and data sheets of TVME8240.

Technical Information

- O MPC8240 CPU: 250 MHz PowerPC 603e Core, 16 KB / 16 KB L1-Cache, four programmable timers
- O 64 MB SDRAM (64 bit wide)
- O Two 32-pin PLCC/CLCC sockets for up to 1 MB boot FLASH memory (firmware)
- O 8 MB FLASH memory (64 bit wide)
- O Four IndustryPack slots (front panel I/O) (16 bit wide) (double sized modules supported)
- PCI Expansion Connector (33 MHz, 32 bit PCI) (supports TVME230 IP Expansion Card or Motorola PMC-Span)
- O 10/100 Mbit/s Ethernet interface with 32 bit PCI DMA
- O 8 KB NVRAM and TOY clock with exchangeable battery
- O One asynchronous RS232 port, one asynchronous RS232/RS422 port
- O On board debug monitor
- O 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

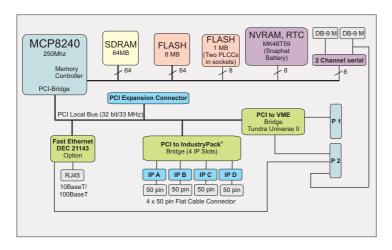
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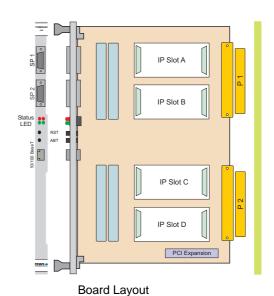
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TVME8240





Block Diagram

Order Information

TVME8240-11 MPC8240-250 MHz, 64 MB SDRAM, 1 + 8 MB Flash, Fast Ethernet, front panel I/O, Standard

Handles

TVME8240-DOC User Manual, includes documentation for PMON Bug Monitor

TVME8240-ED Engineering Documentation (TVME8240-DOC, schematics, assembly drawing, data sheets)

TVME8240-A1-10 RS232 Serial Adapter for serial Port B of TVME8240 RS422 Serial Adapter for serial Port B of TVME8240 TVME8240-A1-11

TVME230-10 PCI Expansion Card for 4 IndustryPacks, IEEE1101 Handles

TVME230-10R RoHS compliant version of TVME230-10

TVME230-11 PCI Expansion Card for 4 IndustryPacks, Standard Handles

TVME230-11R RoHS compliant version of TVME230-11

TVME230-DOC User Manual for TVME230

TVME230-ED Engineering Documentation for TVME230 (TVME230-DOC, schematics, data sheets)

TVME8240-SW-10 OS-9 Board Support Package

TVME8240-SW-40 VxWorks Board Support Package (includes VxWorks IP Carrier Software Support) TVME8240-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.

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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 kernel, 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.

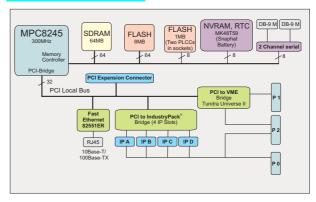
Software support for the TVME8300 CPU board is available for VxWorks, Linux, LynxOS, OS-9, and pSOS. A PMON Bug Monitor is installed on the TVME8300.



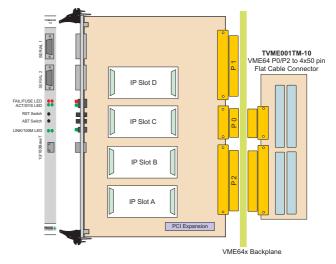
For First-Time-Buyers the Engineering Documentation TVME8300-ED is recommended. The Engineering Documentation includes TVME8300-DOC, schematics and data sheets of TVME8300.

Two Transition Modules are available for easy access to all IP I/O lines from the VME64x P0 and P2 connector. The TVME001-TM-10 provides four 50 pin ribbon cable connectors without front panel and the TVME002-TM-10 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
- O 64 MB SDRAM
- Two 32-pin PLCC/CLCC sockets for up to 1 MB firmware FLASH memory
- O 8 MB FLASH memory
- O Four IndustryPack slots (VME64x backplane I/O)
- O PCI Expansion Card Connector (e.g. for TVME230 IP Expansion Card or Motorola PMC-Span)
- O Fast Ethernet interface (32 bit PCI DMA)
- O 8 KB NVRAM/RTC (exchangeable battery)
- O Two asynchronous RS232 ports
- O On board debug monitor
- O 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



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Order Information

TVME8300-10 MPC8245-300 MHz, 64 MB SDRAM, 1 + 8 MB Flash, Fast Ethernet, IndustryPack backplane

I/O, IEEE1101 Handles

TVME8300-10R RoHS compliant version of TVME8300-10

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

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

Transition Module for VME64x, all IP I/O lines accessible via four 50 pin ribbon cable

connectors, no front panel

TVME001-TM-10R RoHS compliant version of TVME001-TM-10

TVME002-TM-10 Transition Module for VME64x, all IP I/O lines accessible via four HD50 SCSI-2 type connectors

mounted in 6U EMI front panel

TVME002-TM-10R RoHS compliant version of TVME002-TM-10

TVME230-10 PCI Expansion Card for 4 IndustryPacks, IEEE1101 Handles

TVME230-10R RoHS compliant version of TVME230-10

TVME230-11 PCI Expansion Card for 4 IndustryPacks, Standard Handles

TVME230-11R RoHS compliant version of TVME230-11

TVME230-DOC User Manual for TVME230

TVME230-ED Engineering Documentation for TVME230 (TVME230-DOC, schematics, data sheets)

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.



TVME8400 PowerPC based CPU Board with two PMC Slots

Application Information

The TVME8400 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 TVME8400 provides two PMC slots (32 bit, 33 MHz PCI) with VME64x P2 backplane I/O, Fast Ethernet, FLASH memory, System Memory, NVRAM/RTC and a PCI Expansion Connector (32 bit, 33 MHz PCI).



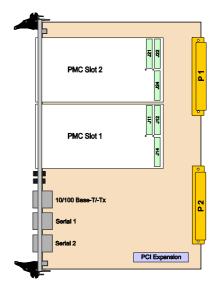
The combination of the MPC8245 processor and the PMC slots plus the PCI Expansion capability provides a powerful CPU and a modular I/O solution for applications in process control, telecommunication, medical systems and traffic control.

Software support for the TVME8400 CPU board is available for VxWorks, Linux, LynxOS, OS-9, and pSOS. A PMON Bug Monitor is installed on the TVME8400.

For First-Time-Buyers the Engineering Documentation TVME8400-ED is recommended. The Engineering Documentation includes user manual, assembly drawing and data sheets.

Technical Information

- MPC8245 CPU: 300 MHz PowerPC G2 Core, 16 KB / 16 KB L1-Cache, four programmable timers
- TVME8400-10: 64 MB SDRAM (64 bit wide) TVME8400-20: 256 MB SDRAM (64 bit wide)
- Two 32-pin PLCC sockets for up to 1 MB firmware FLASH memory
- 8 MB FLASH memory (64 bit wide)
- Two PMC Slots (32 bit, 33 MHz PCI) with VME64x P2 I/O
- O PCI Expansion Card Connector (32 bit, 33 MHz PCI, e.g. for using TVME230 IP Expansion Card or Motorola PMC-Span)
- Fast Ethernet interface (32 bit PCI DMA) O
- 8 KB NVRAM/RTC (exchangeable battery) O
- Two asynchronous RS232 ports O
- On board debug monitor \mathbf{O}
- 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: TVME8400-10 / -20: 0°C to 55°C (forced air cooling) TVME8400-10-ET / -20-ET: -40°C to +85°C (forced air cooling)



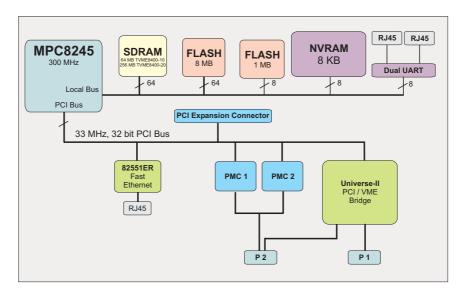
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Phone: +1 (775) 850 5830





Block Diagram TVME8400

Order Information

TVME8400-10 MPC8245-300 MHz, 64 MB SDRAM, 1 + 8 MB Flash, Fast Ethernet, 2 PMC Slots with VME64x P2

I/O, IEEE1101 Handles, Operating temperature range: 0°C to 55°C (forced air cooling)

TVME8400-10R RoHS compliant version of TVME8400-10

TVME8400-10-ET Same as TVME8400-10 but operating temperature range -40°C to +85°C (forced air cooling)

TVME8400-10R-ET RoHS compliant version of TVME8400-10-ET

TVME8400-20 MPC8245-300 MHz, 256 MB SDRAM, 1 + 8 MB Flash, Fast Ethernet, 2 PMC Slots with VME64x

P2 I/O, IEEE1101 Handles, Operating temperature range: 0°C to 55°C (forced air cooling)

TVME8400-20R RoHS compliant version of TVME8400-20

TVME8400-20-ET Same as TVME8400-20 but operating temperature range -40°C to +85°C (forced air cooling)

TVME8400-20R-ET RoHS compliant version of TVME8400-20-ET

TVME8400-DOC User Manual, includes documentation for PMON Bug Monitor

TVME8400-ED Engineering Documentation (User Manual, Schematic, Assembly Drawing, Device Documentation)

TVME020-TM-10 2 Slot PIM Carrier 6U VME64x Rear I/O Transition Module

TVME020-TM-10R RoHS compliant version of TVME020-TM-10

TVME230-10 PCI Expansion Card for 4 IndustryPacks, IEEE1101 Handles

TVME230-10R RoHS compliant version of TVME230-10

TVME230-11 PCI Expansion Card for 4 IndustryPacks, Standard Handles

TVME230-11R RoHS compliant version of TVME230-11

TVME230-DOC User Manual

TVME230-ED Engineering Documentation (User Manual, Schematic, Assembly Drawing)

TVME8400-SW-40 VxWorks Board Support Package
TVME8400-SW-70 LynxOS Board Support Package
TBSP001-SW-80 Linux Board Support Package

For other operating systems please contact TEWS.

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TVME001-TM-10

Transition Module for VME64x Back I/O

Application Information

The TVME001-TM-10 is a Transition Module for use with VME64x backplanes, providing easy and concise access to the I/O lines of back I/O IP carriers.



It brings all 200 IP I/O lines from the VME64x P0 and P2 connectors out to four 50 pin ribbon cable connectors. The routing between the VME64x P0 and P2 connectors and the 4 ribbon cable connectors is ANSI/VITA 4.1-1996 compliant.

The operating temperature ranges is -40°C and +85°C.

Order Information

TVME001-TM-10 Transition Module, I/O lines

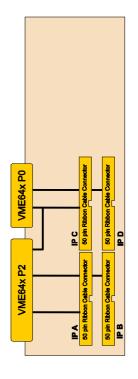
accessible via four 50 pin ribbon cable connectors, no

front panel

TVME001-TM-10R RoHS compliant version of

TVME001-TM-10

TVME001-TM-DOC User Manual



Technical Information

- O Form Factor: VME64x Rear Transition Module
- O I/O Routing:
 - O ANSI/VITA 4.1-1996 compliant I/O mapping (P0 and P2)
 - O I/O lines are accessible via four 50 pin ribbon cable connectors
- O No front panel
- O Operating temperature: -40°C to +85°C

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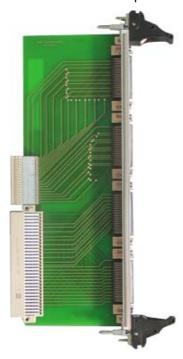


TVME002-TM-10 Transition Module for VME64x Back I/O

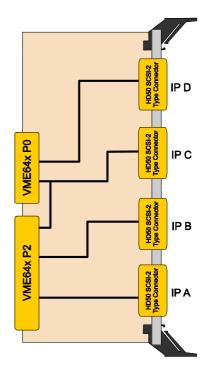
Application Information

The TVME002-TM-10 is an 80mm, 6U Transition Module for use with VME64x backplanes, providing easy access to the I/O lines of back I/O IP carriers.

It brings all 200 IP I/O lines from the VME64x P0 and P2 connectors out to four 50 pin SCSI-2 type connectors located in the EMI front panel. The routing between the VME64x P0 and P2 connectors and the 4 HD50 SCSI-2 type connectors in the EMI front panel is ANSI/VITA 4.1-1996 compliant.



The operating temperature ranges between -40°C and +85°C.



Technical Information

- O Form Factor: VME64x 6U Rear Transition Module
- O I/O Routing:
 - ANSI/VITA 4.1-1996 compliant I/O mapping (P0 and P2)
 - O I/O lines are accessible via four HD50 SCSI-2 type connectors
- O EMI front panel
- O Operating temperature: -40°C to +85°C

Order Information

TVME002-TM-10 80mm, 6U Transition Module, I/0

lines accessible via four HD50 SCSI-2 type connectors mounted in EMI front panel

TVME002-TM-10R RoHS compliant version of

TVME002-TM-10

TVME002-TM-DOC User Manual

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TVME020-TM-10 VME64x Rear I/O PIM Carrier

Application Information

The TVME020-TM-10 is a VME64x Rear I/O 2 Slot PIM Carrier Transition Module to be used with 6U VME64x PMC carrier boards.

The TVME020-TM-10 conforms to the ANSI/VITA 35-2000 PMC to VME-P2/VME64x-P2 I/O mapping.

According to the ANSI/VITA 35-2000 PMC to VME-P2/VME64x-P2 I/O mapping, there are 64 I/O signals for PMC1 available at VME-P2/VME64x-P2 connector rows a + c, and 46 I/O signals for PMC2 available at VME64x-P2 connector rows z + d.

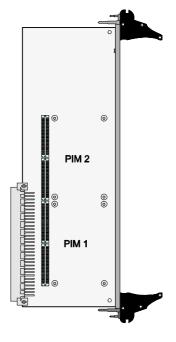
With the TVME020-TM-10 all the 64 PMC1 I/O lines are available at PIM slot 1, and all the 46 PMC2 I/O lines are available at PIM slot 2.

The operating temperature range is -40°C to +85°C.



Technical Information

- O Form Factor: 6U VME64x Rear I/O Transition Module (233 mm x 80 mm)
- O 2 PIM Slots
- ANSI/VITA 35-2000 PMC to VME-P2/VME64x-P2 I/O mapping supported
- O PIM slots:
 - 64 PMC1 I/O lines on PIM slot 1
 - 46 PMC2 I/O lines on PIM slot 2
 - +5V and +3.3V power supply at the PIM slots
- O EMI front panel
- O Operating temperature: -40°C to +85°C





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TPIM001-10

TPIM001-10R

PIM I/O Module with HD68 SCSI-**TPIM003-10** TVME020-TM-10 VME64x Rear I/O 2 Slot PIM

3 type connector

TPIM003-10R RoHS compliant version of RoHS compliant version of **TVME020-TM-10R**

TPIM003-10 TVME020-TM-10

TVME020-TM-DOC User Manual TPIM004-10 PIM I/O Module with 4 RJ45

connectors PIM I/O Module with HD50

TPIM004-10R RoHS compliant version of SCSI-2 type connector

TPIM004-10 RoHS compliant version of

TPIM001-10 **TPIM005-10** PIM I/O Module with HD68 SCSI-

3 type connector **TPIM002-10** PIM I/O Module with HD68

TPIM005-10R RoHS compliant version of SCSI-3 type connector **TPIM002-10R**

TPIM005-10 RoHS compliant version of TPIM002-10



TPIM001 PIM I/O Module with 50 pin Connector

Application Information

The TPIM001 is a standard single-width PIM I/O module to be used with any PIM carrier. It offers easy access to the PMC back I/O lines of PMC carrier with back I/O.

The TPIM001 distributes the lower 50 I/O lines of the PMC to a standard 50 pin SCSI-2 type connector located in the EMI front panel.

The operating temperature range is -40°C to +85°C.

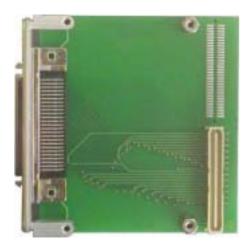
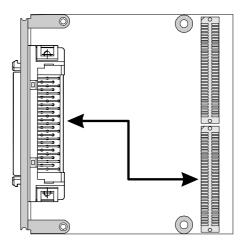


Figure: TPIM001-10

Technical Information

- O Standard single-width PIM I/O Module
- O Board size: 69 mm x 74 mm
- O I/O lines 1 to 50 are routed to a HD50 SCSI-2 type connector in the front panel
- O EMI Front Panel
- O Operating Temperature: -40°C to +85°C



Order Information

TPIM001-10 PIM I/O Module with HD50

SCSI-2 type connector

TPIM001-10R RoHS compliant version of

TPIM001-10

TPIM001-DOC User Manual



TPIM002 PIM I/O Module with 68 pin Connector

Application Information

The TPIM002 is a standard single-width PIM I/O module to be used with any PIM carrier. It offers easy access to the PMC back I/O lines of PMC carrier with back I/O.

The TPIM002 distributes all PMC back I/O lines to a 68 pin SCSI-3 type connector located in the EMI front panel.

The operating temperature range is -40°C to +85°C.

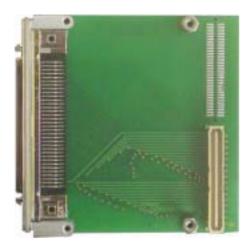
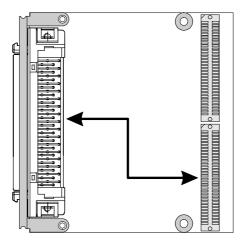


Figure: TPIM002-10

Technical Information

- Standard single-width PIM I/O Module
- O Board size: 69 mm x 74 mm
- I/O lines are routed to a HD68 SCSI-3 type connector in the front panel
- O EMI Front Panel
- O Operating Temperature: -40°C to +85°C



Order Information

TPIM002-10 PIM I/O Module with HD68

SCSI-3 type connector

TPIM002-10R RoHS compliant version of

TPIM002-10

TPIM002-DOC User Manual

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TPIM003 PIM I/O Module with 68 pin Connector

Application Information

The TPIM003 is a standard single-width PIM I/O module to be used with any PIM Carrier like TEWS' TCP020-TM-10, TVME020-TM-10 or others. It offers easy access to the PMC back I/O lines of PMC carriers with back I/O like TEWS' TCP260 or TVME8400.



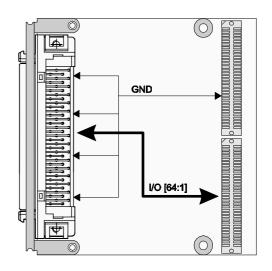
The TPIM003 distributes all 64 PMC back I/O lines to a 68 pin SCSI-3 type connector located in the EMI front panel. Additional GND pins are inserted by solder jumpers at pin 9, 26, 43 and 60 of the 68 pin SCSI-3 type connector. The routing and I/O signal mapping of the TPIM003-10 is optimized for differential pair routing.

The TPIM003-10 recreates the PMC front I/O signal mapping in its 68 pin SCSI-3 type connector when used with e.g. the TPMC460, TPMC630 or TPMC868. Refer to the TPMC Data Sheets to find out if the TPIM003-10 recreates the PMC front I/O signal mapping in its 68 pin SCSI-3 type connector.

The operating temperature is -40°C to +85°C.

Technical Information

- Standard single-width PIM I/O Module
- O Board size: 69 mm x 74 mm
- I/O lines are routed to a HD68 SCSI-3 type connector in the front panel
- O EMI Front Panel
- O Operating Temperature: -40°C to +85°C



Order Information

TPIM003-10 PIM I/O Module with HD68 SCSI-3

type connector for e.g. TPMC460,

TPMC630 and TPMC868

TPIM003-10R RoHS compliant version of

TPIM003-10

TPIM003-DOC User Manual



TPIM004 PIM I/O Module for Quad Ethernet PMCs

Application Information

The TPIM004 is a standard single-width PIM I/O module. PIM Modules are used with a PIM Carrier like TEWS' TCP020-TM-10, TVME020-TM-10 or others to offer easy access to the Back I/O lines of PMCs.

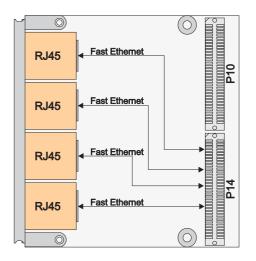


The TPIM004 provides access to the Fast Ethernet Ports of TEWS' Fast Ethernet PMCs with Back I/O like the TPMC882-11 or the TPMC382. Refer to the TPMC Data Sheets to find out, if the TPIM004 can be used with the corresponding PMC.

The operating temperature is -40°C to +85°C.

Technical Information

- O Standard single-width PIM I/O Module
- O Board size: 69 mm x 74 mm
- I/O lines are routed to RJ45 connectors in the front panel
- O EMI Front Panel
- O Operating Temperature: -40°C to +85°C



Order Information

TPIM004-10 PIM I/O Module with 4 RJ45

connectors for e.g. TPMC382, and

TPMC882

TPIM004-10R RoHS compliant version of

TPIM004-10

TPIM004-DOC User Manual



TPIM005 PIM I/O Module with 68 pin connector

Application Information

The TPIM005 is a standard single-width PIM I/O module to be used with any PIM Carrier like TEWS' TCP020-TM-10, TVME020-TM-10 or others. It offers easy access to the PMC back I/O lines of PMC carriers with back I/O like TEWS TCP260 or TVME8400.



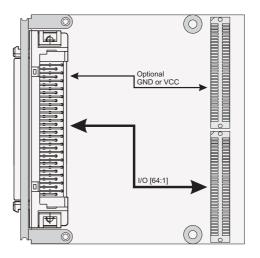
The TPIM005 distributes all 64 PMC back I/O lines to a 68 pin SCSI-3 type connector located in the EMI front panel. The routing and I/O signal mapping of the TPIM005-10 is optimized for differential pair routing.

The TPIM005-10 recreates the PMC front I/O signal mapping in its 68 pin SCSI-3 type connector when used with the TPMC863 or TPMC363. Refer to the TPMC Data Sheet to find out if the TPIM005-10 recreates the PMC front I/O signal mapping in its 68 pin SCSI-3 type connector.

The operating temperature is -40°C to +85°C.

Technical Information

- O Standard single-width PIM I/O Module
- O Board size: 69 mm x 74 mm
- O I/O lines are routed to a HD68 SCSI-3 type connector in the front panel
- O EMI Front Panel
- O Operating Temperature: -40°C to +85°C



Order Information

TPIM005-10 PIM I/O Module with HD68

SCSI-3 type connector

TPIM005-10R RoHS compliant version of

TPIM005-10

TPIM005-DOC User Manual

TEWS TECHNOLOGIES GmbH keeps the right to change technical specification without further notice.

03/2007