### Application Information

The TVME220 is a 6U VMEbus carrier for up to 4 single-size 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 and TVME002-TM 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
- **VME64 (ANSI/VITA 1-1994) and VME64x (ANSI/VITA 1.1-1997) compliant Slave Interface**
  - Short I/O: A16, D08/16, size: 1 Kbytes
  - Standard Memory: A24, D08/16
    - Size: 32 Kbytes to 2 Mbytes per IP
  - Extended Memory: A32, D08/16
    - Size: fixed, 8 Mbytes per IP
  - Interrupts: IRQ1-7
- **ANSI/VITA 4.1-1995 compliant interface to IndustryPack modules**
  - IndustryPack slots: Four single-size or two double-size with back I/O via P0 and P2
  - 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**
- **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**
Order Information

RoHS Compliant
TVME220-10R
VME64x VMEbus Carrier for 4 IP modules (6U), Back I/O on P0 and P2, EMI front panel

None RoHS Compliant
TVME220-10
None RoHS compliant version of TVME220-10R

Documentation
TVME220-DOC
User Manual
TVME220-ED
Engineering Documentation (TVME220-DOC, Schematics, Assembly Drawing, Data Sheets)

Software
CARRIER-SW-25
Integrity Software Support
CARRIER-SW-42
VxWorks Software Support (Legacy and VxBus-enabled 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.

Related Products
TVME001-TM
Transition Module; all IP I/O lines accessible via four 50 pin ribbon cable connectors, no front panel
TVME002-TM
Transition Module; all IP I/O lines accessible via four HD50 SCSI-2 type connectors mounted in 6U EMI front panel