TAMC220 3 Slot IndustryPack® Carrier for MTCA.4 Rear-I/O

Application Information

The TAMC220 is a standard double Mid-Size/Full-Size AMC.1 (PCI-Express) and MTCA.4 compliant carrier for up to three single-size, or one double-size and one single-size IndustryPack (IP) modules. It can be used to build modular, flexible and cost effective I/O solutions for all kinds of applications like process control, medical systems, telecommunication and traffic control. The TAMC220 is a versatile solution to upgrade well known legacy I/O solutions to a high performance form factor.

Two AirMaxVS™ connectors provide access to all IP I/O lines via a compatible µRTM, such as the TAMC002-TM.

The IP power lines are protected by self-healing fuses and are RF filtered. The operating temperature range is -40°C to +85°C.
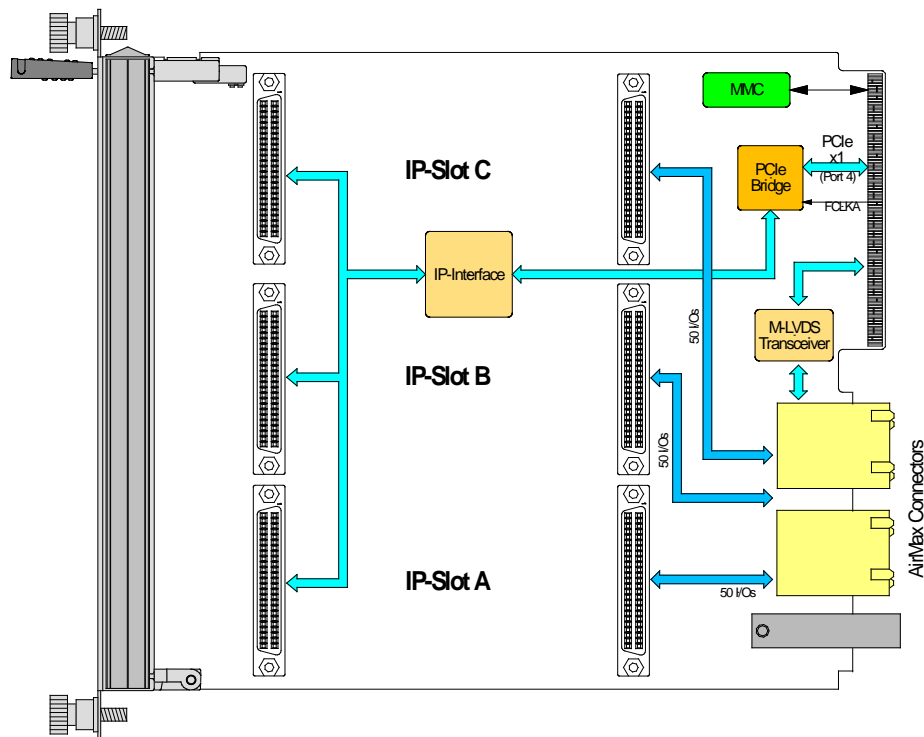
According to AMC.0, the TAMC220 provides an IPMI compliant Module Management Controller (MMC) with temperature monitoring and hot-swap support.

The TAMC220 is available as a mid-size module or as a full-size module.

TCLKA and TCLKB are connected to the µRTM via M-LVDS transceivers. Both signals can be used as bi-directional single-ended signals.

Technical Information

- Form Factor: PICMG MTCA.4 Module
  - Board size: Double Mid-Size or Double Full-Size
- PCIe x1 Port (AMC.1 Type 1 compliant)
- IPMI V1.5 support
- Front-Panel LEDs:
  - Blue Hot-Swap LED
  - Red Failure LED (LED1)
  - Green Board OK/Activity LED (LED2)
  - Green ACKNOWLEDGE LED for each IP slot
- ANSI/VITA 4-1995 compliant interface to three IndustryPack modules
  - 3 IndustryPack slots: three Single-Size IPs or one Single-Size and one Double-Size IP

- 8/32 MHz interface, no DMA
- 8 Mbytes memory space per IP Slot
- Routing of all IP interrupts to PCIe INTA/MSI, local interrupt status register
- Rear-I/O access to all 150 IP I/O lines via AirmaxVS™ 90-pos connectors to a compatible RTM (for example, TAMC002-TM)
- Self Healing fuses and RF-filtering on all IP power lines
- Operating temperature -40°C to +85°C
- MTBF (MIL-HDBK217F/FN2 G_B 20°C) TAMC220-xxR: 268000h

Order Information

RoHS Compliant

TAMC220-10R 3 Slot IndustryPack Carrier, Double Mid-Size, MTCA.4 Rear I/O***)**
TAMC220-11R 3 Slot IndustryPack Carrier, Double Full-Size, MTCA.4 Rear I/O

*) Please note that the mid-size module has restrictions to its usage because of a component height violation. It is within the responsibility of the user to carefully check if the mid-size module with its component height violation can be used in his system. Otherwise damage of the TAMC220 or its slot to be used in may occur! For more information see the user manual TAMC220-DOC.

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

Documentation
TAMC220-DOC User Manual

Software
CARRIER-SW-42 VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
CARRIER-SW-65 Windows Software Support
CARRIER-SW-82 Linux Software Support
CARRIER-SW-95 QNX Software Support

For other operating systems please contact TEWS.

Related Products
TAMC002-TM MTCA.4 Rear I/O µRTM for TAMC220, 3 x VHD6