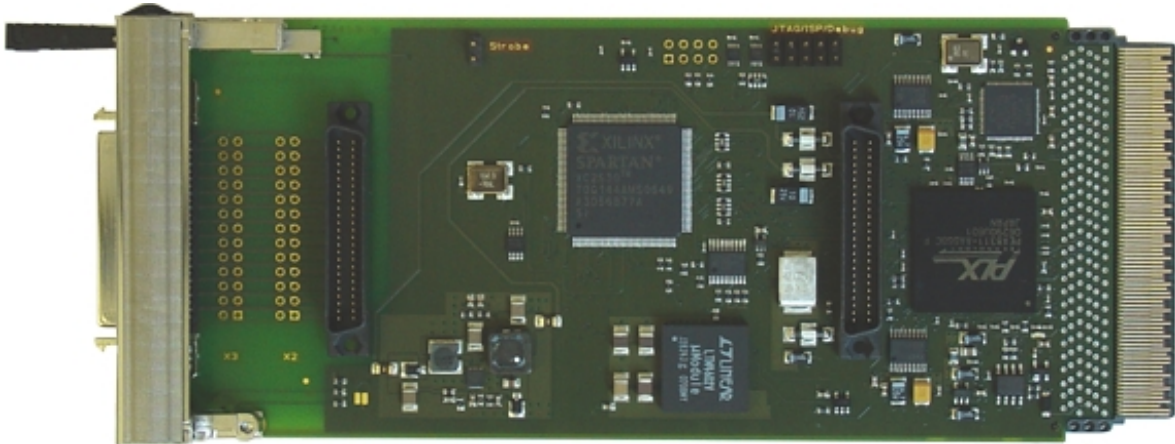*The Embedded I/O Company*

TEWS TECHNOLOGIES

TAMC100 Carrier for 1 IndustryPack®

Application Information

The TAMC100 is a standard single width Mid-Size/Full-Size AMC.1 (PCI-Express) compliant carrier for one single-size IndustryPack (IP) module used to build modular, flexible and cost effective I/O solutions for applications in process control, medical systems, telecommunication and traffic control. A HD50 SCSI-2 type connector provides access to all IP I/O lines.

The TAMC100 is a versatile solution to upgrade well known legacy I/O solutions to a high performance form factor.

All IP interrupt request lines are mapped to PCIe INTA. Alternatively Message Signaled Interrupts (MSI) can be used. For fast interrupt source detection the TAMC100 provides a special IP interrupt status register.
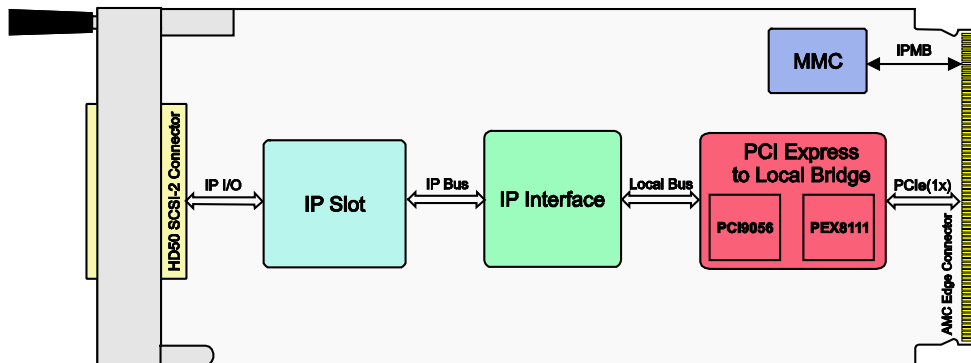
The IP power lines are fuse protected by self healing fuses and RF filtered. The operating temperature range is -40°C to +85°C.

According to AMC.0, the TAMC100 provides an IPMI compliant Module Management Controller (MMC) with temperature monitoring and hot-swap support.

The TAMC100 is available as mid-size module or as full-size module. 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 TAMC100 or its slot to be used in may occur! For more information see the user manual TAMC100-DOC.

Technical Information

- Form Factor: PCIMG AMC.1 Module
  - Board size: 180.6mm x 73.5mm
  - Single width
  - Mid-Size/Full-Size front panel
- Fabric Interface:
  - PCIe single lane (x1) on AMC Port 4 (AMC.1 Type 1 compliant)
- IPMI V1.5 Support
- Front Panel LEDs:
  - Blue Hot-Swap LED
  - Red Fail LED (LED1)
  - Green IP-Activity LED (LED 2)

- ANSI/VITA 4-1995 compliant interface to one IndustryPack module
  - IndustryPack slot: one single-size
  - 8/32 MHz interface, no DMA
  - 8 Mbytes IP memory space
  - Routing of all IP interrupts to PCIe INTA/MSI, local interrupt status register
  - I/O access: HD50 SCSI-2 type connector
- 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): 633.000 h

Order Information

RoHS Compliant

TAMC100-10R   AMC Carrier for 1 IndustryPack, Mid-Size front panel ***)**
TAMC100-11R   AMC Carrier for 1 IndustryPack, Full-Size front panel

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

Documentation

TAMC100-DOC   User Manual

Software

CARRIER-SW-42   VxWorks Software Support (Legacy and VxBus-enabled Software Support)
CARRIER-SW-65   Windows XP/XPE/2000 Software Support
CARRIER-SW-82   Linux Software Support
CARRIER-SW-95   QNX 6 Software Support

For other operating systems please contact TEWS.

Related Products

TA301   Cable Kit for Modules with HD50 connector