

Overview:

The VRM-TAMC100 is a standard single width / mid-size or 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 VRM-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 VRM-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 VRM-TAMC100 provides an IPMI compliant Module Management Controller (MMC) with temperature monitoring and hot-swap support.

The VRM-TAMC100 is available as mid-size module or as full-size module. The mid-size option has restrictions to its usage on AdvancedTCA carriers because of a component height violation, but allows improving the density of a μ TCA system.

For First-Time-Buyers the engineering documentation VRM-TAMC100-ED is recommended. The engineering documentation includes VRM-TAMC100-DOC, schematics and data sheets of VRM-TAMC100.

Features:

- Form Factor: PCIMG AMC.1 Module
 - Board size: 180.6mm x 73.5mm
 - Single width
 - Mid-size or 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 GB 20°C): 633.000 h

Ordering options:

VRM-TAMC100-10 AMC Carrier for 1 IndustryPack, Mid-size front panel

VRM-TAMC100-10R RoHS compliant version of VRM-TAMC100-10

VRM-TAMC100-11 AMC Carrier for 1 IndustryPack, Full-size front panel

VRM-TAMC100-11R RoHS compliant version of VRM-TAMC100-11

VRM-TAMC100-DOC User Manual

VRM-TAMC100-ED Engineering documentation (VRM-TAMC100-DOC, Schematics, Assembly Drawing, Data Sheets)

VRM-CARRIER-SW-42 VxWorks Software Support

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

VRM-CARRIER-SW-72 LynxOS Software Support

VRM-CARRIER-SW-82 LiNux Software Support

VRM-CARRIER-SW-95 QNX 6 Software Support

-For other operating systems please contact V Rose.

