



Technical Applications Associates, Inc.

System solutions providers and manufacturers

4U^{plus}

4U – Series 4 High Performance Rackmount Computer Systems

- Intel® Core™ 2 Solo/Duo/Quad/Extreme / Single or Dual - Intel® Dual Core / Quad Core Xeon™ Processors supported.
- CPU Speeds up to 3.33 GHz / 1333Mhz FSB
- Up to 8GB DRAM support.
- Ruggedized (.060") 4U rack mount chassis only 18" deep
- Flexible peripheral and I/O configurations
- Passive backplane design for increased flexibility and product longevity
- Multiple backplane configurations – PICMG 1.3 / PCI / PCI-X / PCIe / ISA
- Forced air cooling with removable and washable filter
- **P-Clamp™** adjustable card retainers.



General Description

The **4U – Series 4** constitutes the highest performance family of 4U rack mountable systems ranging from sub-486 class processors through dual (2) - Quad™ Core Xeons®. The **4U - Series 4** addresses the need for maximum performance sometimes required by some of today's demanding applications and operating systems. As with all **TA²** systems, quality, longevity and reliability considerations are of primary importance. While targeting higher performance applications, the **4U - Series 4** can still support legacy ISA requirements.

The **4U - Series 4** standard models support PICMG 1.3 Socket 771 / 775 Single Board Computers (SBC's) with speeds ranging from 1.4Ghz to 3.33 GHz and up to 1333 Mhz Front Side Bus (FSB). Memory can range from 256MB to 8GB. All popular operating systems are supported including Real-time and Embedded systems.

The **4U - Series 4** chassis is designed with maximum flexibility and ruggedness in mind with configurations ranging from 3 – 14 slot passive backplanes and power supplies ranging from 370 watts to 600+ watts. Peripherals include, but are not limited to: hard drive(s), floppies, DVD/CD-RW, tape, and Solid State Disks in various combinations. The standard box cooling incorporates up to 3 ball bearing fans with a removable, washable filter. Access to peripherals and controls can be restricted (key lock.) A unique feature, the infinitely adjustable **P-Clamp™** card retainer is available for every card location. EMI shielding, acoustic shock mounting, dichromate plating and optional slide rails add the final touches.

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Specifications:

Processor & I/O

- **SBC Processor:** Intel® Core™ 2 selections from 1.4GHz to 3.33GHz . Dual™ and Quad™ Core Xeons®
- **Memory:** 2/4 -240 Pin DDR2 DIMM sockets (up to 8GB)
- **LAN:** 2 (min) 10Base-T/100Base-TX/GbE (PCI Express on-board)
- **Hard Drive:** SCSI, PATA, SATA, RAID
- **Serial Ports:** Multiple Configurations
- **Parallel Port:** 1 SPP/EPP/ECP port.
- **USB Connectors:** 0 to “n”
- **Solid State Disk:** CF, SD (non-bootable), DiskOnChip™, plus special configurations.
- **KB/Mouse:** PS/2 type standard
- **Hardware Monitoring:** SBC Selection dependent
- **Video:** SVGA Many additional options including 3D, LVDS, TV out.



Peripheral Configuration(s)

- **Internal:** Supports 2 - 3.5" devices (planar mounting - acoustically damped.)
- **External Access:** Supports 1- 3.5" device and 2 - 5.25" (acoustically damped)
- **Peripheral Flexibility:** Provisions for alternate form factors are available.

Chassis:

- **Backplane:** 3 T0 14 slot passive or bridged – PCMIG 1.3
- **PS/2 Power Supply:** 250 to 600+ watts AT / ATX , PFC / Autosense / Autoswitch/ 90-264V 47-63Hz
- **Cooling:** 1 main / 2 Auxiliary ball bearing fans (configurable.) Removable / washable filter.
- **Chassis Material:** .060" Dichromate plated steel, .125 " painted / silk-screened steel front panel. EMI Shielding
- **P-Clamp™** assembly standard
- **Gemini™** option available (some models)
- **Chassis Slides:** Optional
- **Indicators:** Power, Disk A, B(**Gemini™** only)
- **Switches:** Power, Reset A, B(**Gemini™** only), 2 spare
- **Color:** Black (other options – minimum lot size.)

Environmental and Mechanical

- **Operating Temperature*** 0°C to 50°C ⁽¹⁾
- **Dimensions:** 18.0" (L) x 19.0" (W) x 7" (H)
- **MTTR:** < 30mins.
- **WEIGHT:** 50⁽¹⁾ lbs
⁽¹⁾ Final configuration dependent

Ordering Information:

Call for final configuration and ordering information.

For more information, contact:

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