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Find the *Elma / Act/Technico cPCI RAIDstor* at our website: *Click HERE*

ACT TECHNICO

RAIDSTOR™
Development Platform

The RDP-01 Development Platform is a complete reference package which enables evaluation of ACT/Technico's Network Attached RAIDStor and its applications.

The ***RAIDStor Development Platform*** serves as an established baseline to help users realize the full potential of RAIDStor and its leading edge storage management capabilities.

The kit is fully integrated and tested prior to shipment to ensure smooth deployment. Furthermore, the development kit serves as the baseline platform for *network centric application development* as well as for evaluating other RAIDStor products from ACT/Technico. Visit our web site at acttechnico.com for more information on RAIDStor and related products.

To further ensure maximum effectiveness, the kit includes a remote support package allowing users to leverage ACT/Technico's unparalleled experience and know how in the embedded computing industry. Use the service to answer any questions that may come up or just to discuss the possibilities.



RAIDStor Development Platform shown with 2.16 tower enclosure and display

The kit contains everything needed to establish a complete Embedded Network Attached RAID solution with dual star topology in a PICMG 2.16 or VITA 31.1 enclosure;

- Two RAIDStor™ storage blades
- Two 10/100 or Gigabit Ethernet fabric switches
- Choice of a 2.16 or VITA 31.1 Pentium M or PowerPC single board computer
- All required rear transition modules RTMs

Sample applications include:

- Military command and control
- Distributed communications processing
- Voice over IP
- General purpose network
- Message processing



Products for Embedded Systems



CPUs

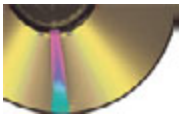
I/O





Software

Design & Documentation





Chassis



Ethernet Switches

(800) 445-6194 ◆ www.acttechnico.com

Platform Details

PICMG2.16 Enclosure (11.92”W x 15.22”H x 18.56”D)
- 8 slot backplane provides a mix of PICMG 2.16 Node Slots and standard CPCI slots
  - 2 PICMG 2.16 Fabric slots
  - 1 right hand System/Node slot
  - 2 Peripheral/H.110 slots w/o node capability
  - 3 Node/Peripheral/H.110 slots
- 1.44. floppy drive, 20 GB hard drive and 52X CD
- 450 W power supply
- Cooling via 6 fans (3 top, 3 bottom) with air deflecting guides to optimize airflow

VITA 31.1 Rackmount Enclosure (19” W x 10U x 21” D)
- 14 slot backplane provides a mix of VITA 31.1 Node Slots and standard VME64X slots
  - 2 VITA 31.1 Fabric slots
  - 2 PICMG2.16 node slots
  - 10 Peripheral VME64X peripheral slots
- Shuttle with provisions for 1 floppy drive, 1 hard drive and 1 CD drive
- Two 600 W power supplies
- Air deflecting card guides to optimize air flow, 350 LFM average air flow

Two Single Slot NAS Blades with RAID (*RAIDStor*)
- Drive and blade level hot swap capable
- Choice of 80 or 120 GB per blade capacity (Higher capacities when available)
- Dual Gigabit Ethernet ports
- Automatic fail over
- Automatic data synchronization
- RAID 0, 1, 0 + 1 and 1+1
- Supports NFS, CIFS/SMB, Web Server, bootp, FTP and others
- Rear transition modules

Two 6U Ethernet Switches (switches)
- Up to 24 ports 10/100 or Gigabit Ethernet, auto negotiating
- Wire-Speed Layer 2/Layer 3 (IP) switching speed (9 Gbps)
- Layer 4-7 filtering provides increased security and improved packet classification
- Link Aggregation and VRRP increases network speed and availability
- Rear transition modules

Single Board Computer (Choose from several models)
- Choice of PowerPC or Pentium processor
- Up to 1.6GB DDR ECC memory for peak computation power
- Dual Gigabit Ethernet interface connectivity
- Two PMC sites for maximum I/O expansion
- Front panel or backplane I/O for standard chassis support
- Rear transition module as needed

Hard Drive Specification

RAIDStor is supplied with 24/7, 50% duty cycle enhanced availability drives only.
- Hitachi Travelstar Enhanced Availability E7K60-60/40 2.5” drives
- 40GB or 60GB capacity (higher capacities when available)
- 7200 RPM
- Operating temp 5 to 40C, short term op temp 5 to 55C, Non op temp -40 to 65C
- Operating shock 200g (2ms), Non op shock 1000g (1ms)

The following operating systems are supported:
- Windows 2000, NT and XP
- Linux
- VxWorks
- Solaris as applicable. Contact ACT/Technico regarding Solaris

Please inquire about additional operating system support

Visit our web site for detailed information on RAIDStor.

Ordering Information and Part Number Guide

PART NUMBER: RDP-SBCx-Rx-Rx-SWx-SWx

SBCx = Processor board plus rear transition module combination
- 1 = MCPN905 MPC7410 G4 PowerPC (2.16)
- 2 = PP312/011-22 1.8 GHz Pentium M with rear transition module ADPP5/011-00 (2.16)
- 3 = VP315 1.6 GHz Pentium M CPU (VITA 31.1)
- 4 = VP317 1.8 GHz Pentium M CPU (VITA 31.1)

Rx = RAID blade plus RTM combination
- 1 = 6210-40GB-Dev with rear transition module 6210-RTM
- 2 = 6210-60GB-Dev with rear transition module 6210-RTM

SWx = Switch plus rear transition module combination
- 1 = 6750-S 24 ports 10/100 with rear transition module RTM6750-1
- 2 = 6760-S 24 ports Gigabit with rear transition module RTM6760-1-S

Support Package
- 6210-DTS

VITA 31.1 RDP-01 Platform



Each RAIDStor Development Platform includes a remote support package. The remote support package consists of twenty hours of remote support provided by an ACT/Technico support engineer over a six month time period commencing upon delivery of the system to the customer site. Additional support blocks can be purchased separately.

760 Veterans Circle, Warminster, PA 18974 • Tel. (215) 956-1200 • Fax: (215) 956-1201 • E-mail: sales@acttechnico.com

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