INTER-LINK SYSTEMS
POST OFFICE BOX 517
CUPERTINO, CALIF. 95014
408/257-7165

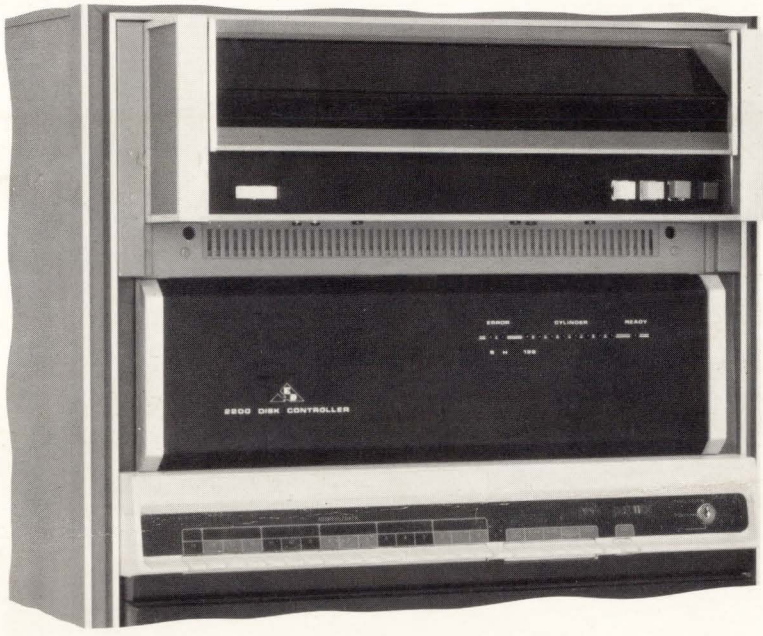
FEB 18 1975

AED 2200

CARTRIDGE DISK SYSTEM

FEATURES

- RK-11/RK-05,03 MEDIA
- DEC SOFTWARE COMPATIBLE
- UNIBUS® CABLE
- LOWER COST
- MORE RELIABLE
- SECOND SOURCE
- QUICK DELIVERY



AED2200 DISK

AED2200 CONTROLLER

YOUR PDP-11

ADVANCED ELECTRONICS DESIGN, INC.

754 NORTH PASTORIA STREET SUNNYVALE, CALIFORNIA 94086 (408) 733-3555

- 1,228,800 Data Words/Disk
- 2 Surfaces/Disk
- 200 Cylinders/Disk
- 12 Sectors/Track
- 256 Words/Sector
- 16-Bit Words

CARTRIDGE DISK

This front-loading media written by the AED 2200 may be interchanged with cartridges written by the DEC RK-11/RK 05, 03.

This superior disk cartridge is the result of many years experience in coating technology. The aluminum substrate is processed to assure maximum durability and coating adhesion. The coating is blended from the finest materials and applied under the most stringent clean-room conditions. The disks are critically tested and carefully packaged to assure consistently high performance.

- Up to 4 Drives
- Overlapped Operations
- Status Indicators
- UNIBUS Cable Provided
- DMA, NPR

DISK CONTROLLER

Completely compatible with all RK-11 DEC software, the AED2200 Controller plugs onto the PDP-11 UNIBUS.® The format generated by the AED2200 is identical to the format generated by the RK-11, thus the cartridges and software are interchangeable between the two disk systems. The AED2200 controls from one to four Disk Drives, containing a total of 4,915,200 16-bit words. Status indicators on the front panel aid the user. The complete controller electronics are mounted on a single printed circuit board for reliability and low cost. A UNIBUS cable is provided with the AED2200 Controller. The power supply in the Controller chassis is sufficient for two Disk Drives and one Controller.

- 1500 rpm
- Removable Disk
- 11.1 μ sec Data Transfer Rate
- 20 m sec Average Latency
- Head Positioning
  15 m sec Track to Track
  70 m sec average
  135 m sec maximum

DISK DRIVES

DIABLO SERIES 30

A single spindle (Model 31) Drive contains one removable disk cartridge with a storage capacity of 1,228,800 words. Up to four Model 31 Drives are controlled by the AED2200 Controller. The dual spindle Model 33 contains one Model 31 removable disk drive and a second Model 33F fixed disk.

- Fixed Disk
- 11.5 m sec Track to Track
- Other specs same as Series 30

DIABLO SERIES 20

A single spindle fixed disk, the Model 21 Drive offers Series 30 performance at lower cost where applications do not require the media to be removed from the Drive. Up to four Model 21 Drives are serviced by the AED2200 Controller or a fewer number can be controlled in combination with the Series 30 Drives.

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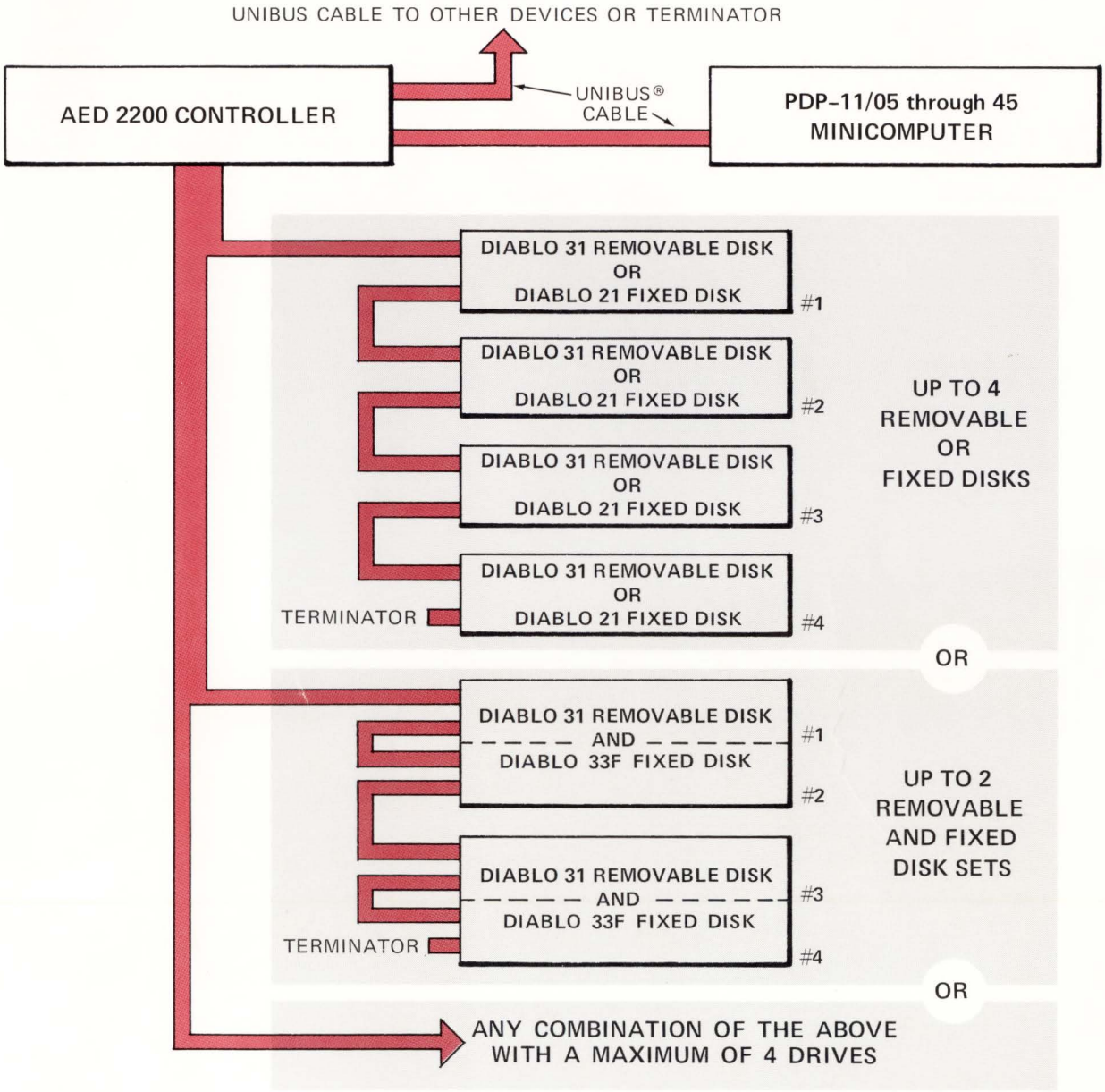
AED 2200 CONFIGURATIONS



CABLES and MOUNTING HARDWARE

The AED 2200 is Comprised of:

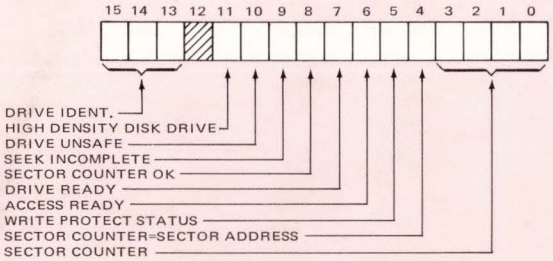
- 1 Controller Chassis includes a Power Supply for up to 2 Drives
- 1 to 4 Disk Drive Chassis
- 1 UNIBUS Cable, 8½' (259 cm) long
- 1 Data Cable between Chassis, 6' (183 cm) long
- 1 DC Cable between Chassis, 6' (183 cm) long
- 1 AC Power Cable, two wires and ground, 6' (183 cm) long
- Chassis Slides and Mounting Hardware conforms to RETMA/EIA Standards

SOFTWARE

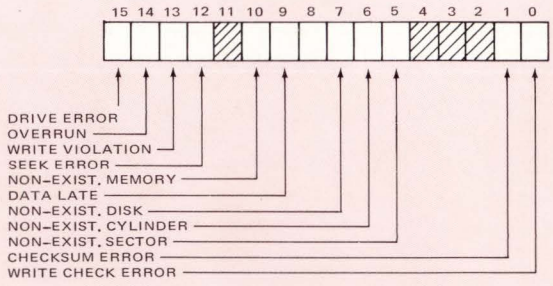
For users of RK-11/RK-05, 03 Systems, all DEC software on existing systems will operate on the AED 2200 without modification. DEC users without RK-11/RK-05, 03 software may wish to become licensees of DEC. An alternative Disk Operating System, AEDOS/2200 is also available from ADVANCED ELECTRONICS DESIGN, INC. AEDOS/2200 will also operate on the RK-11/RK 05, 03.

CONTROLLER REGISTERS

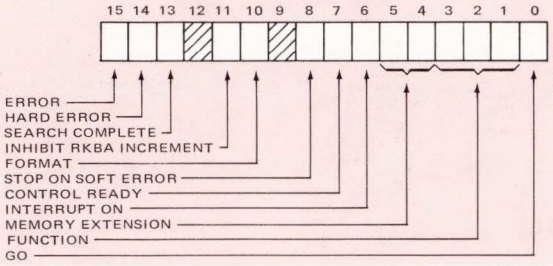
Drive Status Register (RKDS)
Contains the current selected drive status and current sector address. It is a read only register.



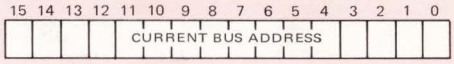
Error Register (RKER) (This is read only register)



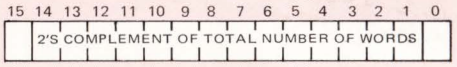
Control Status Register (RKCS)



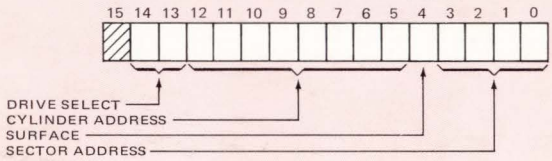
Current Bus Address Register (RKBA)
Contains the Bus Address to or from which data will be transferred. The register is incremented by two at the end of each transfer.



Word Count Register (RKWC)
Contains the two's complement of the total number of words to be affected by a given function. It increments by one after each word transfer.



Disk Address Register (RKDA)



SPECIFICATIONS

CHARACTERISTIC		MODULE				
		AED 2200 CONTROLLER	DIABLO 21 DRIVE	DIABLO 31 DRIVE	DIABLO 33 DUAL DRIVE	REMOVABLE DISK
VOLTAGE		105-120/210-240	—	—	—	—
LINE FREQUENCY		47-63 Hz.	—	—	—	—
CURRENT AT 115V (1 DRIVE)		2 AMPERES	—	—	—	—
AMBIENT TEMPERATURE	MAX.	90° F (32° C)	104° F (40° C)	90° F (32° C)	90° F (32° C)	150° F (96° C)
	MIN.	60° F (15° C)	50° F (10° C)	60° F (15° C)	60° F (15° C)	40° F (4° C)
RELATIVE HUMIDITY		20%-80%	20%-80%	20%-80%	20%-80%	8%-80%
DIMENSIONS	WIDTH	17 1/2" (44 cm)	17 1/2" (44 cm)	17 1/2" (44 cm)	17 1/2" (44 cm)	15" (38 cm)
	DEPTH	22 7/8" (58 cm)	22 7/8" (58 cm)	22 7/8" (58 cm)	22 7/8" (58 cm)	15" (38 cm)
	HEIGHT	5 1/4" (13 cm)	5 1/4" (13 cm)	6 1/2" (17 cm)	13" (33 cm)	1 3/4" (4 cm)
WEIGHT (UNCRATED)		60 LB (27 kg)	50 LB (23 kg)	40 LB (18 kg)	80 LB (36 kg)	4 1/2 LB (2 kg)
CHASSIS SLIDES PROVIDED		YES	YES	YES	YES	—
COLOR	FRONT PANEL	BLACK	BLACK	BLACK	BLACK	WHITE
	HARDWARE	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	BROWN

AED 2200 WARRANTY and SERVICE

The AED 2500 and its OPTIONS are guaranteed to be free from defects due to workmanship, materials, or design for a period of 90 days from date of invoice.

During this Warranty Period the buyer ships the malfunctioning part or system to us Freight Collect. We repair and return it Freight Collect.

ADVANCED ELECTRONICS DESIGN, INC.

754 NORTH PASTORIA STREET SUNNYVALE, CALIFORNIA 94086 (408) 733-3555

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REPRESENTATIVE INTER-LINK SYSTEMS
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AED 2200 PRICE LIST
CARTRIDGE DISK SYSTEM
FOR PDP-11 COMPUTERS

Qty Req'd	Model	Description	Unit Quantity Price			Price Extension
			1 System	2-10 Systems	10+Systems	
	AED 2200	Controller, accommodates a total of four disk drives. Includes power supply for up to 2 drives, UNIBUS ® cable for PDP-11, chassis slides and manual.	$ 4,400	$ 3,400	$ 2,400	
	AED 2200(31)	AED 2200 controller per above and one Diablo Model 31 disk drive which accommodates one removeable disk cartridge.	8,565	7,000	5,500	
	Diablo 31	Extra Diablo Model 31 disk drive.	4,300	3,800	3,300	
	AED 2200DC	Cartridge disk for Diablo Model 31 drive.	115	115	105	
	AED 2200PS	Power supply for third and fourth drive mounted in 5-1/4" x 17-1/2" x 22-7/8" (13 x 44 x 58 cm) cabinet with cables and chassis slides.	1,000	750	650	
	AED 2200(33)	AED 2200 controller as described above and one dual-drive Diablo Model 33. Drive has one removeable cartridge drive (Model 31) and one fixed cartridge drive (Model 33F).	10,800	8,000	7,200	
	Diablo 33	Extra Diablo Model 33 dual-drive. Requires one AED 2200 PS.	6,500	5,800	5,000	
	AED 2200(21)	AED 2200 controller as described above and one Diablo Model 21 fixed-disk drive.	7,565	6,000	4,500	
	Diablo 21	Extra Diablo Model 21 fixed-disk drive.	3,300	2,800	2,300	
	AEDOS 2200	Operating System (Monitor, assembly language system and support) for PDP-11. Occupies 3K memory in PDP-11.	1,100	935	770	
	AED FORTRAN	FORTRAN with re-entrant code, interrupt servicing with FORTRAN coding, and intermixed assembly coding. Occupies an additional 3K memory in PDP-11	800	680	560	

Delivery is 30-45 days from receipt of P.O.
Warranty - 90 days from date of shipment.

Shipping - Packaging for air freight is included in above prices. F.O.B. Sunnyvale, Calif. Freight Collect

Terms - Net 30 days. Cancellation charge - 30% of order not filled.
Finance Charge - 1-1/2% per month after 30 days.

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