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# DILOG

## DISC & TAPE INTERFACE PRODUCTS FOR

**DEC**

**LSI-11**

**PDP-11**

**VAX**

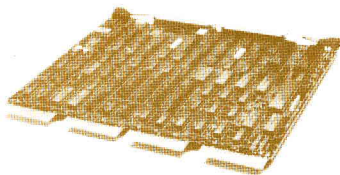
DISTRIBUTED  
LOGIC CORP.  
**DILOG**

# LIST OF MANUFACTURERS

MAGNETIC TAPE	HARD DISK CAPACITIES 2.5 to 300 MB					½" TAPE CARTRIDGE	FLOPPY DISK DRIVE
½" REEL-TO-REEL STD. & STREAMER	2315/5440/RK05 CARTRIDGE CLASS	CMD CARTRIDGE MODULE	SMD STORAGE MODULE	WINCHESTER 5¼", 8" or 14"			
AMPEX CIPHER CONTROL DATA DATUM DIGI-DATA KENNEDY MICRODATA PERTEC (T.A.) S.E. LABS (EMI) TANDBERG DATA (IDT) TDX WANGCO (CIPHER) MEGATAPE	AMPEX CAELUS CENTURY DATA CONTROL DATA DEC DIABLO DRI IOMEC MICRODATA PERTEC WANGCO (CIPHER) WESTERN DYNEX	AMPEX CONTROL DATA VERMONT RESEARCH	AMPEX BALL COMPUTER CENTURY DATA CONTROL DATA MITSUBISHI	AMPEX BASF CENTURY DATA C.M.I. DMASYSTEMS FUJITSU IMI KENNEDY MEMOREX MICROPOLIS MINISCRIBE M.P.I. N.E.C. ATASI EVOTEK DISCTRON DISCTECHONE	NIPPON PER LTD. OLIVETTI PERTEC (T.A.) PRIAM QUANTUM RODIME SEAGATE SIEMENS SHUGART S.L.I. TANDON TEXAS INST. TECSTOR 3M SYQUEST VERTEX MAXTOR	DEI DIGI-DATA E.P.I. KENNEDY PENNY & GILES PEREX QANTEX	BASF CONTROL DATA MICROPOLIS M.P.I. QUME PEMEX SHUGART TANDON

## DQ130 TAPE CONTROLLER

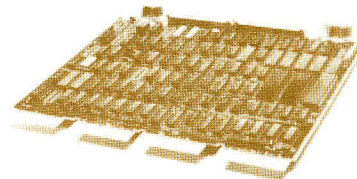
### DEC LSI-11 Compatible



- Interfaces to LSI-11 through -11/23 PLUS Microcomputers.
  - Emulates DEC TM-11 controller.
  - Handles up to eight 9-track, 800/1600 bpi industry standard formatted tape drives at speeds from 12.5 to 125 ips—eight stop/start or four ½" streamers.
  - Completely contained on one quad-wide module.
  - RT-11, RSX-11, RSTS and TSX-Plus\* software compatibility.
  - FIFO buffer for DMA latency.
  - Memory addressing capability to 256 Kbytes.
  - Software or switch selectable density control.
- \*TSX-Plus is a trademark of S&h computer systems inc.

## DU130 TAPE CONTROLLER

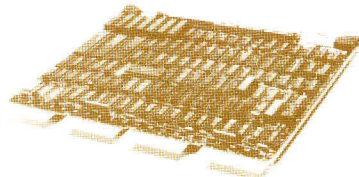
### DEC PDP-11 Compatible



- Interfaces to DEC PDP-11 UNIBUS computers.
- Emulates DEC TM-11 controller.
- RT-11, RSX-11, RSTS, IAS, MUMPS and TSX-Plus software compatibility.
- Handles up to eight 9-track, 800/1600 bpi industry standard formatted tape drives at speeds from 12.5 to 125 ips—eight stop/start or four ½" streamers.
- FIFO buffer for DMA latency.
- Software or switch selectable density control.
- Completely contained on one quad-wide board.
- Memory addressing compatibility to 256 Kbytes.

## DQ132 TAPE CONTROLLER

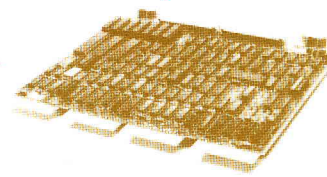
### DEC LSI-11 Compatible



- Interfaces LSI-11 through LSI-11/23 PLUS microcomputers.
- Emulates DEC TS-11 or TSV05.
- 600 Kbytes/sec data transfer rate, for both GCR and CacheTape compatibilities.
- Controls up to four ½" streamer tape drives or four ½" formatted start/stop tape drives, with switch selectable interrupt vectors for the second, third and fourth drives.
- RT-11, RSX-11, RSTS and TSX-Plus software compatibility.
- 22-bit addressing for access to four megabytes.
- Contained on one quad module.
- Extended 1 Kbyte data buffer.
- DMA burst size of 8 bytes with dynamic auto throttle control.

## DU132 TAPE CONTROLLER

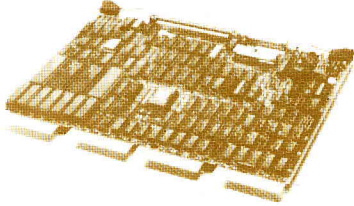
### DEC PDP-11/VAX Compatible



- Interfaces PDP-11 and VAX UNIBUS computers.
- Controls up to four ½" streamer tape drives or four ½" formatted start/stop drives, with switch selectable interrupt vectors for the second, third and fourth drives.
- VMS, RT-11, RSTS and RSX software compatibility.
- 600 Kbytes/sec data transfer rate, with both GCR and CacheTape compatibilities.
- Contained on one quad module.
- Extended 1 Kbyte data buffer.
- Switch selectable DMA burst sizes of 4 to 8 bytes with dynamic auto throttle control.
- Full TU-80 diagnostic compatibility.
- Emulates DEC TS-11 or TU-80.

## DQ215/SMD DISC CONTROLLER

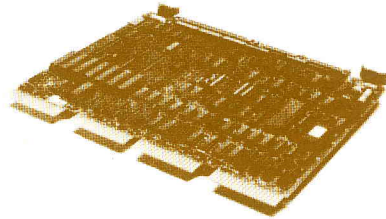
### DEC LSI-11 Compatible



- Interfaces LSI-11 through 11/23 PLUS microcomputers.
- Emulates DEC RK06 or RK07 (switch selectable).
- Connects up to two SMD I/O disk drives, including 8- and 14-inch Winchester, SMD pack and CMD cartridge type drives.
- RT-11, RSX-11, RSTS and TSX-Plus software compatibility.
- Universal Formatting.™
- 22-bit addressing for access to four megabytes.
- 56-bit error correction code (ECC).
- Full sector data buffer.
- On-board bootstrap loader.

## DU215/SMD DISC CONTROLLER

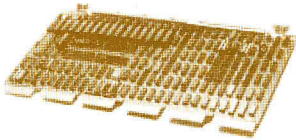
### DEC PDP-11/VAX Compatible



- Interfaces PDP-11 and VAX UNIBUS computers.
- Emulates DEC RK06 or RK07 (switch selectable).
- Connects up to two SMD I/O disk drives, including 8- and 14-inch Winchester, SMD pack and CMD cartridge type drives.
- RT-11, RSX-11, RSTS and VMS software compatibility.
- Universal Formatting.™
- Memory addressing to 256 Kbytes.
- 56-bit error correction code (ECC).
- Full sector data buffer.

## DU218/SMD DISC CONTROLLER

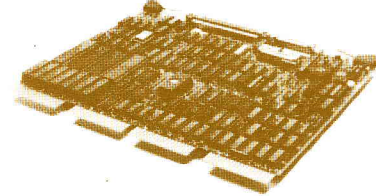
### DEC PDP-11 Compatible



- Emulates DEC RM02/RM05.
- Media compatible with DEC RM02/RM03/RM05 drives when using CDC 9762/9766 or equivalent disk drives.
- Connects to four Winchester drives that contain an industry standard SMD interface.
- RSTS, RSX-11, IAS and DSM software compatibility.
- Completely contained on one hex-wide module.
- FIFO data buffer of 1,536 bytes (3 sectors).
- 32-bit ECC for data error detection and correction in addition to a 16-bit CRC for header error detection (RM02/RM05 media compatible).
- Offset commands for electrical head adjustment.
- Number of data transfers per DMA request switch selectable with dynamic auto throttle control.

## DQ228/SMD DISC CONTROLLER

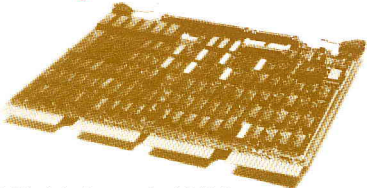
### DEC LSI-11 Compatible



- Interfaces LSI-11 through 11/23 PLUS microcomputers.
- Emulates DEC RM02/RM05.
- Connects up to two disk drives which contain an industry standard SMD interface.
- RSTS and RSX-11 software compatibility.
- 22-bit addressing accesses four megabytes.
- 56-bit error correction code (ECC).
- Universal Formatting.™
- Full sector data buffer.
- Completely contained on one quad-wide module.
- On-board bootstrap loader.

## DQ202A/SMD DISC CONTROLLER

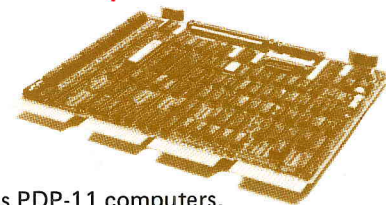
### DEC LSI-11 Compatible



- Interfaces LSI-11 through 11/23 microcomputers.
- Emulates DEC RP02/RP03.
- Connects up to two SMD I/O disk drives including 8- and 14-inch Winchester, SMD pack and CMD cartridge type drives.
- RT-11, RSX-11, RSTS and TSX-Plus software compatibility.
- Universal Formatting.™
- Completely contained on one quad-wide module.
- Automatic media flaw compensation with bad-sector flagging and transparent, automatic track-skipping features.
- Full sector data buffer.
- On-board bootstrap loader.

## DU202A/SMD DISC CONTROLLER

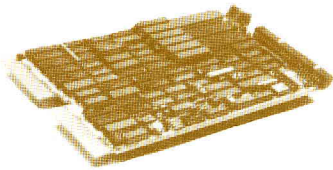
### DEC PDP-11 Compatible



- Interfaces PDP-11 computers.
- Emulates DEC RP02/RP03.
- Connects up to two SMD I/O disk drives.
- RT-11, RSX-11, RSTS and TSX-Plus software compatibility.
- Universal Formatting.™
- Up to 88% utilization of drive unformatted storage capacity.
- Completely contained on one quad-wide module.
- Full sector data buffer.
- Automatic media flaw compensation with bad-sector flagging and transparent, automatic track-skipping features.

## DQ614/ST506 WINCHESTER DISC

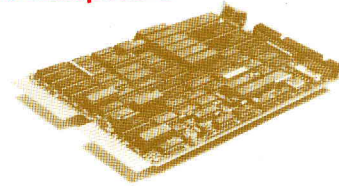
### DEC LSI-11 Compatible



- Interfaces LSI-11 through 11/23 PLUS microcomputers.
- Emulates DEC RL01/RL02.
- Connects up to two ST506 or equivalent disk drives.
- RT-11, RSX-11, RSTS and TSX-Plus software compatibility.
- Universal Formatting.™
- 22-bit addressing for access to four megabytes.
- Enhanced error correction code (ECC) with a 32-bit checkword.
- Completely contained on dual-wide module.
- Full sector data buffer.
- On-board bootstrap loader.

## DQ615/ST506 WINCHESTER DISC

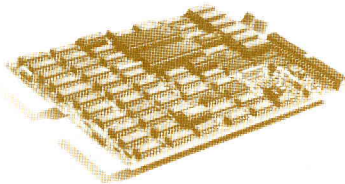
### DEC LSI-11 Compatible



- Interfaces LSI-11 through 11/23 PLUS microcomputers.
- Emulates DEC RK06/RK07.
- Connects up to two high capacity, 5¼" Winchester drives which have ST506 interfaces.
- RT-11, RSX-11, RSTS and TSX-Plus software compatibility.
- Universal Formatting.™
- 22-bit addressing for access to four megabytes.
- Enhanced error correction code (ECC) with a 32-bit checkword.
- Completely contained on one dual-wide module.
- Full sector data buffer.
- On-board bootstrap loader.

## DQ409/FLOPPY

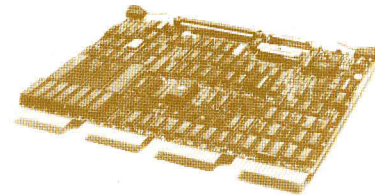
### DEC LSI-11 Compatible



- Interfaces LSI-11 through 11/23 microcomputers.
- Emulates DEC RX02.
- Controls one or two single or dual density flexible diskette drives with Shugart 800 or 850 compatibility.
- RT-11 and RSX-11 software compatibility.
- Media compatible with DEC RX01/RX02.
- IBM 3740 format compatible.
- On-board formatting capability.
- Completely contained on one dual-wide module.

## DQ214/SMD DISC CONTROLLER

### DEC LSI-11 Compatible



- Interfaces LSI-11 through 11/23 PLUS microcomputers.
- Emulates DEC RL01/RL02.
- Connects up to two SMD compatible disk drives.
- RT-11, RSX-11, RSTS and TSX-Plus software compatibility.
- Universal Formatting.™
- 22-bit addressing for access to four megabytes.
- 56-bit error correction code (ECC).
- Completely contained on one quad-wide module.
- Full sector data buffering.
- On-board bootstrap loader.

## Complete Computer Subsystems

Arrow Computers are pleased to supply Dilog controllers matched with Winchester Disc Drives, Floppy CMD, Cartridge Tape Drives or Magnetic Tape Units to provide complete subsystems.

## How to Order

Simply supply Arrow Sales Department with details of Controller model and cables if required.

(Please state manufacturer of drive and Model No. (e.g. Cipher F880))



Arrow House, Blenheim Road, Longmead Industrial Estate, Epsom, Surrey KT19 9BA.  
Telephone: Epsom (03727) 42557 Telex: 262469 ARROW G

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