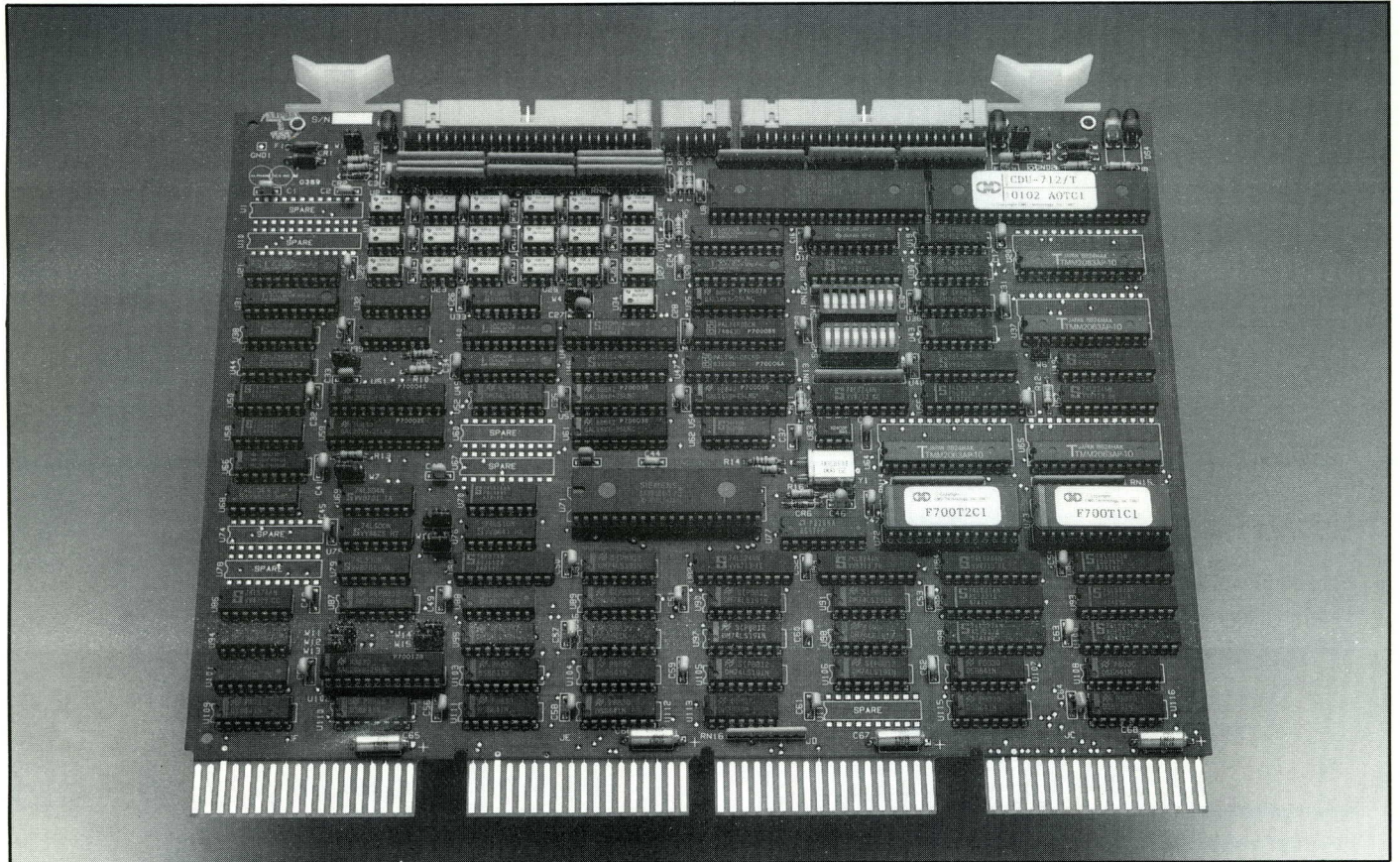




# CMD

710/712 SERIES  
DIFFERENTIAL/SINGLE-ENDED UNIBUS SCSI HOST ADAPTER  
CABLE LENGTH UP TO 80 FT.



The CMD's CDU-710/712 Unibus SCSI host adapter is the best solution to bridging DEC MSCP/TMSCP protocols and SCSI optical, magnetic disk and tape products.

- 16-bit microprocessor
- On-board utility to format qualify drives
- Unibus MSCP, TMSCP compatible
- Automatic drive configuration
- 16 KB sector buffer
- Dynamic defect management
- Command queuing and seek optimization
- ANSI compatible tape format
- Support up to 7 SCSI devices
- User selectable disk auto bootstrap
- SCSI bus transfer rate up to 2 MB/sec
- Support single-ended or differential SCSI
- Support SCSI disconnect and reconnect capability
- Cable length differential: up to 80 ft. single-ended: up to 20 ft.
- Support magnetic disk tape and optical drives

For more information or to order call:

**1-800-4-CMD-TEC**

(1-800-426-3832)

In California call: (714) 454-0800



1 Vanderbilt  
Irvine, California 92718  
(714) 454-0800 • FAX: (714) 455-1656



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# CMD TECHNOLOGY, INC. ANNOUNCES: CDU-710/712 DIFFERENTIAL/SINGLE-ENDED UNIBUS SCSI HOST ADAPTER.

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The CDU-710/712 is an intelligent Unibus Quad-wide SCSI host adapter which is fully compatible with the DEC Mass Storage Control Protocol (MSCP) and Tape Mass Storage Control Protocol (TMSCP).

The CDU-710/712 offers two separate SCSI channels: single-ended and differential. The single-ended channel can communicate with drives in a maximum distance of 20 feet, while the differential channel can control drives at 80 feet away from the system.

The CDU-710/712 can be used with the PDP-11/84, PDP-11/70, PDP-11/44, PDP-11/34, PDP-11/24, VAX, etc. It supports RT-11, TSX +, RSX, RSTS, ULTRIX, UNIX, VMS and other operating systems which use the DU/MU drivers.

The CDU-710/712 supports 16K bytes sector buffer, command queuing, seek optimization, standard SCSI bus arbitration, disconnect/reconnect, and all required SCSI commands. Up to seven SCSI target devices (magnetic or optical) can be connected to CDU-710/712 with SCSI bus data transfer rate to 2M bytes per second.

The CDU-710/712 has an on-board utility for users to configure and format drives, scan bad blocks and replace them automatically.

The CDU-710/712 contains a user selectable automatic disk bootstrap option which can boot up the system on power up. It comes standard with an installation manual and a one year warranty.

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## CONTROLLER SPECIFICATIONS

**Emulation:** MSCP, TMSCP

**Bus Interface:** Unibus

**CSR address:** (Disk) 772150, 760334, 760354, 760374,  
760340, 760344, 760350, 760360  
(Tape) 774500, 760404, 760444, 760504,  
760544, 760410, 760450, 760454  
(Disk/Tape) 772150, 760334, 760354, 774500,  
760404, 760444

**Interrupt priority:** Level 5

**Interrupt vector:** Software programmable

**Command queuing:** 10 commands with optimized seek

**Data buffer capacity:** 16K-Byte sector buffer

**Bootstrap:** On board auto bootstrap and utility bootstrap

**Formatting:** On board format and bad block replacement

**Software supported:** All standard DEC operating systems

**LED Indicators:** Self test, drive error

**Peripheral interface:** Small Computer System Interface  
(SCSI)

**SCSI bus transfer rate:** 2MB/sec (maximum)

**SCSI parity:** Odd parity

**Multiple device support:** Up to 7 SCSI devices

**System performance:** Support disconnect/reconnect  
capability

**SCSI Driver/Receiver:** CDU-710, single-ended  
CDU-712, differential/single-ended

**SCSI cable length:** CDU-710, up to 20 ft. (6 meters)  
CDU-712, up to 80 ft. (25 meters)

**Operating temperature:** 5° C to 50° C

**Relative humidity:** 10% to 90%, non-condensing

**Power requirement:** 5VDC, 2.8 A

\* MSCP, TMSCP, RT-11, RSX, ULTRIX, RSTS, VMS, Unibus, PDP-11, VAX are trademarks of Digital Equipment Corporation.

\* TSX + is a trademark of S & H Computer Systems, Inc.

\* UNIX is a trademark of AT&T

\* Specifications subject to change without notice.

## MODEL DESCRIPTION

Single-ended SCSI:

CDU-710/M . . . . Magnetic disk

CDU-710/T . . . . Magnetic tape

CDU-710/OM . . . . Optical and magnetic disk

CDU-710/TM . . . . Magnetic disk and tape

Differential/Single-ended SCSI:

CDU-712/M . . . . Magnetic disk

CDU-712/T . . . . Magnetic tape

CDU-712/OM . . . . Optical and magnetic disk

CDU-712/TM . . . . Magnetic disk and tape

## DRIVES SUPPORTED:

### DISK:

CDC, C.itoh, Conner, Fujitsu, Hitachi, Maxtor, Micropolis, Priam, Quantum, Rodime, Seagate, Siemens, Toshiba, ...etc.

### TAPE:

Cipher, Exabyte, Wangtek, Kennedy, Archive, Caliper, Tandberg, Fujitsu, CDC, DAT, ... etc.

### ERASABLE OPTICAL:

Ricoh, Sony, . . . etc.

### CD-ROM:

LMS, Phillips, Toshiba, ... etc.



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