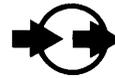


\$ 3200



WESPERGROUP

Disk, tape and printer solutions for today's computer applications

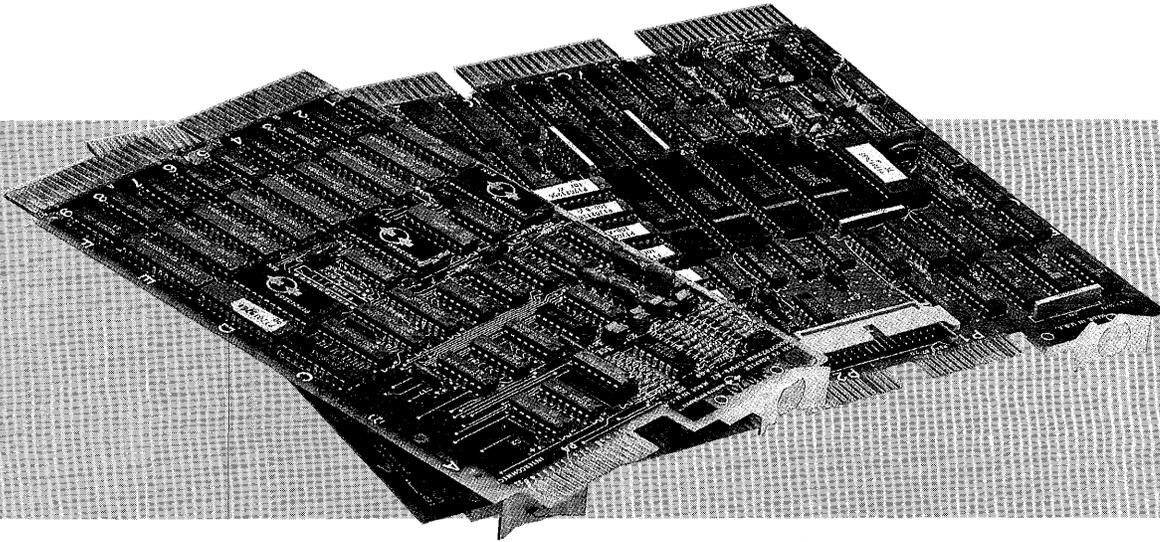
MODEL TC-151

DEC™ COMPATIBLE Q-BUS™ TAPE CONTROLLER

Emulation for TM11 or TU10

PRODUCT DESCRIPTION

The Wespergroup Model TC-151 Magnetic Tape Controller is a universal controller for DEC LSI-11™ systems. The controller is hardware and software compatible with the DEC TM11/TU10 tape drives, providing the interface for a tape system of up to eight PE/NRZ tape drives operating at 25 to 125 ips.



HARDWARE DESCRIPTION

The controller is a standard DEC Quad Q-Bus printed circuit board which contains a bit slice microprocessor that controls up to eight industry standard interface non-formatted tape drives. An additional DEC Dual Q-Bus PCB is available for the PE version which plugs into a standard SPC slot in the computer backplane. A 33-byte buffer permits read-and-write operations, while three standard cables interface the control, write data and read data to the tape drive.

COMPUTER COMPATIBILITY

The controller is hardware compatible with the DEC LSI-11 family of Q-Bus computer systems.

EMULATION

Emulating the DEC TM11/TU10 tape subsystem, the controller produces tapes which are media compatible with the DEC subsystems.

SOFTWARE COMPATIBILITY

The controller is transparent to the standard tape drivers in most DEC operating systems such as RSX11-M,™ RSTS/E,™ RT-11,™ RSX11-M plus. The TC-151 also runs standard functional diagnostics.

MEDIA COMPATIBILITY

The controller is designed to emulate DEC precisely and perform PE or NRZ formats to ANSI specifications, yielding total media compatibility with DEC subsystems and ANSI compatible tape drives. Compatible with pre-existing library or archival storage, data may also be exchanged with other compatible systems.

RELIABILITY

Wespergroup designed the TC-151 with reliability in mind. You benefit from Wespergroup's experience in fielding over 33,000 controller systems presently sustaining MTBF rates in excess of 40,000 hours. An advanced Quality Assurance program is in effect, providing a superior level of quality unmatched in the industry.

MODEL TC-151

DEC™ COMPATIBLE Q-BUS™ TAPE CONTROLLER

TECHNICAL SPECIFICATIONS

DRIVE INTERFACE

Industry standard Pertec drive interface.

DRIVE ADDRESS AND VECTOR

Standard address range 772520₈ through 772532₈. Optional addresses start at 770000₈ through 777740₈. Standard Vector 224₈. Optional Vectors 0₈ through 374₈ available by jumper selection.

PRIORITY LEVEL

Standard Bus Level 5. Optional Bus Level 4 through 7 available by jumper selection.

NUMBER OF DRIVES/DRIVE SPEED MIX

One to eight per controller, either single or dual density. Up to two separate tape drive speeds allow flexibility in procuring tape drives.

ERROR HANDLING

Performs error check of vertical parity, LRC and CRC in NRZ mode, and dropped track detection in write PE. Also performs single track error correction in PE.

DIAGNOSTIC PROGRAMS

Comprehensive diagnostic programs are supplied with all controller systems for testing the Wespergroup Magnetic Tape Controller and insuring compatibility with the standard operating system under dynamic operating conditions.

POWER REQUIREMENTS

+5vdc ±5% @ 9.0 amps

BUS LOADING

The controller presents a one-unit load to the Q-Bus at all times.

HARDWARE CONFIGURATION

Single standard quad-wide printed circuit board and a single standard dual-wide printed circuit board for PE version only.

MOUNTING: Installs directly into a standard PDP-11 Unibus SPC slot.

CABLING: 50 conductor flat control cable—25' max.
26 conductor flat write cable—25' max.
26 conductor flat read data cable—25' max.

COMMAND SET

The following functions are performed on command by the computer-stored program:

- Write (one record)
- Read (one record)
- Write end-of-file (EOF)
- Space reverse
- Space forward
- Write with gap (erase 3 inches of tape before writing)
- Select unit number 0, 1, 2, 3, 4, 5, 6, 7
- Rewind
- Unload
- Test Read
- Load address or word count register
- High-low density
- Power clear

READ STATUS

Status information returned from the peripheral controller to the central processor indicates the conditions at the controller. These conditions include:

- End-of-tape
- End-of-file
- Non-existent memory
- Incorrect record length
- Illegal command
- Tape rewinding
- Tape ready
- Beginning of tape
- Parity error
- Identification status (PE only)
- Bad tape status
- File protect status
- Density status
- 9-track status
- Tape settle-down
- Bus grant late

INPUT/OUTPUT SUB-ROUTINE

A comprehensive stand-alone driver is supplied by Wespergroup on request.

For unformatted drives

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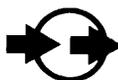
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