WESPERGROUP

Division of WESPERCORP

WESTERN PERIPHERALS   WESPERLINE

DATASYSTEMS   WESPER INTERNATIONAL

WESPERGROUP
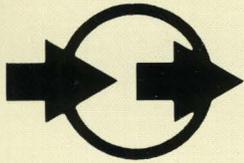
WESPERGROUP . . . This may be a new name to you, but in reality it is a combination of various product groups within the Wespercorp organization. Western Peripherals, Datasystems, Wesperline and Wesper International are now trade names identifying the various products of the Wespergroup Division. This consolidation results in a stronger market identification, product development and service. The equipment included in this condensed catalog combines existing tape, disk and line printer controllers for mini computers, as well as highly specialized mass storage subsystems.

We are also introducing MULTIBEST™ Products, a new family of controllers and peripheral processors designed to expand the function and capability of Intel Multibus interface compatible computer systems. Complete information and specifications are available from your Wespergroup representative.

TAPE DIMENSION DEC UNIBUS COUPLERS
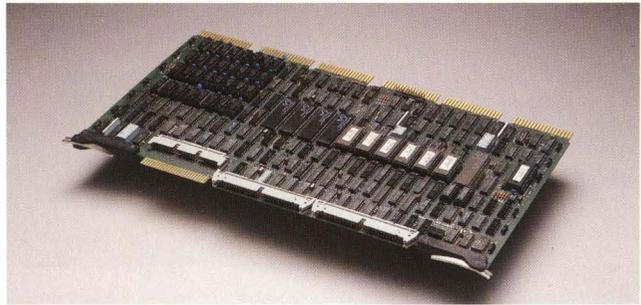
MODEL TD-III BUFFERED TRI-DENSITY COUPLER—START/STOP OPERATION
MODEL TD-IV BUFFERED TRI-DENSITY COUPLER—STREAMING/START/STOP

DEC MODELS—All UNIBUS, PDP-11 and UNIBUS VAX Series of Computers
INTERFACE—STC, TELEX, AND PERTEC compatible interface for use with START/STOP or STREAMING *"Formatted Tape Drives"*—single, dual and tri-density (GCR/PE/NRZI)

FEATURES:
MODEL TD-III—START/STOP OPERATION
- Emulates TS-11—SOFTWARE TRANSPARENT to all operating systems having TS-11 support—no software modifications or special drivers required
- START/STOP OPERATION—64K byte data buffer which acts as a single buffer to accommodate high speed GCR drives and eliminate data lates for maximum bus efficiency
- Over one megabyte/second transfer rate in start/stop mode
- Single hex board—requires only 7.0 amps @ +5 volts
- Power-up self test with LED fault indicators

MODEL TD-IV—STREAMING/START/STOP OPERATION
- STREAMING OPERATION—64K byte data buffer which acts as a multi-block STAGING BUFFER for high speed writes, and a circular buffer for high speed reads
- Over one megabyte/second transfer rate in start/stop mode, .5 megabyte in streaming mode

TAPE DIMENSION DEC Q-BUS COUPLERS
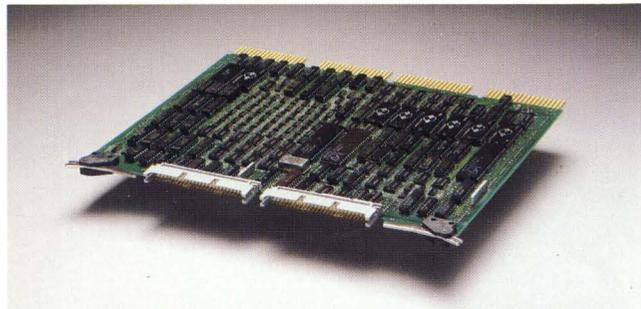
MODEL TDQ-I TRI-DENSITY COUPLER—PERTEC INTERFACE
MODEL TDQ-II BUFFERED TRI-DENSITY COUPLER—STC, TELEX, and PERTEC

DEC MODELS: All DEC Q-BUS Compatible Processors
DRIVES—START/STOP or STREAMING *"Formatted Tape Drives"*—single, dual and tri-density (GCR/PE/NRZI)

FEATURES:
MODEL TDQ-I
- Emulates TSV05—Software transparent to all operating systems having TSV05 support—no software modifications or special drivers required
- Supports block mode transfers and auto throttle as options
- Over one megabyte/second transfer rate
- Single quad board—requires only 7.0 amps @ +5 volts
- Power-up self test with LED fault indicators

MODEL TDQ-II
- STC, TELEX Interface in addition to PERTEC
- START/STOP OPERATION—64K byte data buffer which acts as a single buffer to accommodate high speed GCR drives and eliminate data lates for maximum bus efficiency
- Extra High Performance when running STC and TELEX Interfaces

DEC COMPATIBLE TAPE COUPLERS
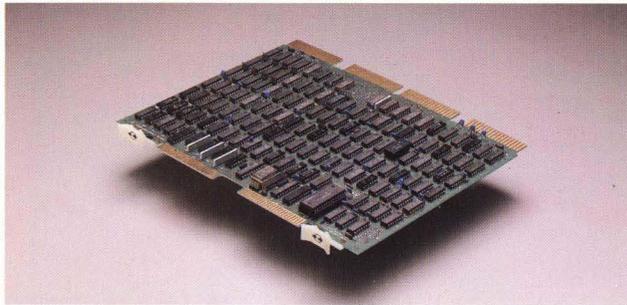

TC-30 DEC UNIBUS STREAMING MAGTAPE COUPLER

DEC MODELS PDP-11/04 through 11/70 and VAX-11/730 through 11/780

INTERFACE—Compatible with all tape drives designed with the industry standard (PERTEC) interface

FEATURES:
- Software transparent to all DEC operating systems that support TU-10/TM-11
- Compatible with both start/stop Formatted tape drives and Streaming tape drives
- VAX - VMS TM-11 software driver included for all VAX installations
- Stand alone streaming software available for full image back-up from any disk (not available on VAX)
- 64 byte read/write data buffer
- DMA transfer rate 640K bytes/second (maximum)
- Single quad module requires only 2.5 amps @ +5 volts and 60ma @ −15 volts
- Controls up to eight tape drives
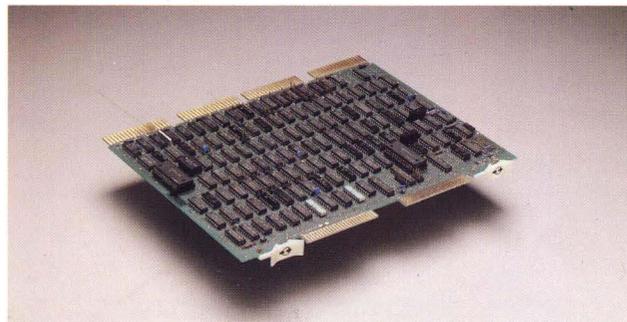

TC-50 DEC Q-BUS STREAMING MAGTAPE COUPLER

DEC MODELS: LSI-11/02 through LSI-11/23 Plus

INTERFACE—Compatible with all tape drives designed with the industry standard (PERTEC) interface.

FEATURES:
- Software transparent to all DEC operating systems that support TU-10/TM-11
- Compatible with both start/stop Formatted tape drives and Streaming tape drives
- Stand alone streaming software available for full image back-up from any disk
- 22 bit DMA option (Jumper selectable) (Customer software support needed)
- 64 byte read/write data buffer
- DMA transfer rate 640K bytes/second (maximum)
- Single quad module requires only 2.5 amps @ +5 volts
- Controls up to eight tape drives

DEC COMPATIBLE TAPE CONTROLLERS
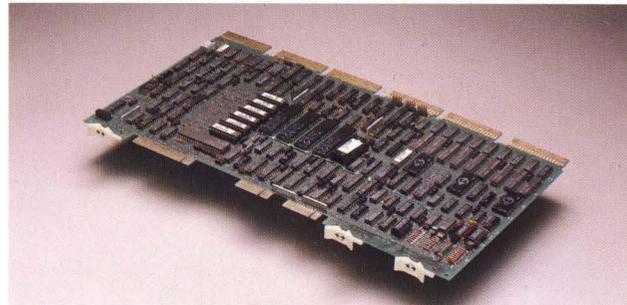
TC-131 DEC UNIBUS MAGTAPE CONTROLLER

DEC MODELS: PDP-11/04 through 11/70 and VAX-11/730 through 11/780

INTERFACE—Compatible with all tape drives designed to be compatible with the industry standard (PERTEC) interface

FEATURES:
- Software transparent to all operating systems having TU-10/TM-11 support
- VAX - VMS TM-11 driver included for all VAX installations. Patches provided for use with DEC's stand alone backup program on VAX
- IBM compatible 9-track format
- Allows mixing of 9-track PE, NRZI or dual density in any combination
- Single hex board design requires 9.0 amps of +5 volts
- Generates and checks VRC, LRC, and CRC
- Controls up to eight tape drives
- Power up self test with LED fault indicators
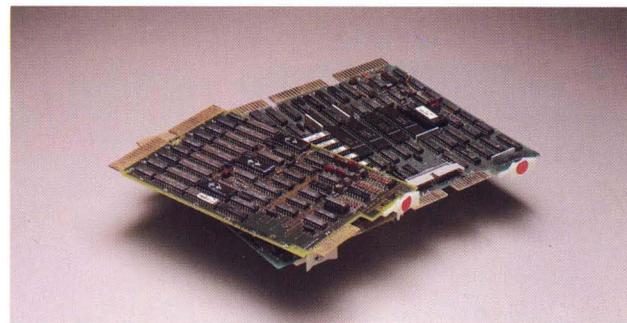
TC-151 DEC Q-BUS MAGTAPE CONTROLLER

DEC MODELS: LSI-11/02 through LSI-11/23 Plus, PDP 11/03

INTERFACE—Compatible with all tape drives designed with the industry standard (PERTEC) interface

FEATURES:
- Software transparent to all DEC operating systems that support TU-10/TM-11
- IBM and DEC byte packing
- IBM compatible 9-track format
- Available as single board NRZI only, or dual board NRZI/PE
- Checks VRC, LRC, and CRC
- Controls up to eight tape drives
- Power up self test with LED fault indicators

WESTERN PERIPHERALS TAPE CONTROLLERS
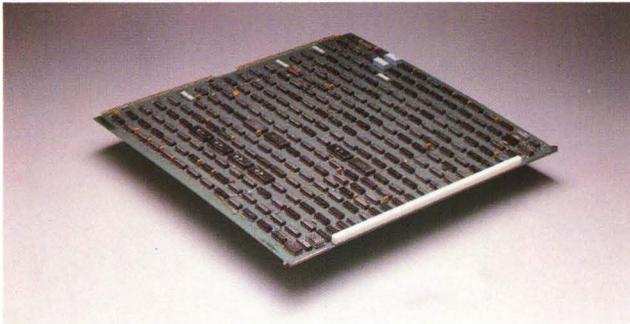
TC-120 DATA GENERAL MAGTAPE CONTROLLER

DATA GENERAL MODELS: All NOVA, ECLIPSE and other Data General Emulating Computers

INTERFACE—Compatible with all tape drives designed with the industry standard (PERTEC) interface

FEATURES:
- Emulates DATA GENERAL 6021 subsystems
- Fully compatible with ANSI specs. 3.22 and 3.39
- 16-bit DMA addressing
- 66 byte data buffer (read and write)
- Single 15" x 15" embedded module requires 4.8 amps @ +5 volts and 50ma @ +15 volts
- Checks CRC and LRC
- Controls up to eight tape drives any mixture of single and dual density
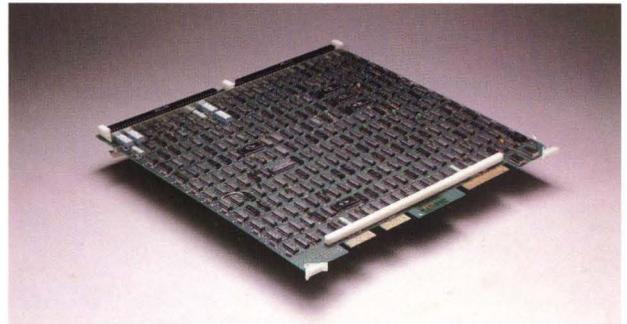
### TC-140 PERKIN-ELMER MAGTAPE CONTROLLER

PERKIN-ELMER MODELS: All

INTERFACE—Compatible with all tape drives designed with the industry standard (PERTEC) interface

FEATURES:
- Software transparent
- Operates via SELCH or multiplexer bus
- IBM 360 compatible 7/9 track format
- Enhanced command set
- Extended status set
- Allows mixing of 7-track or 9-track tape units in any combination
- Single embedded-board provides both PE and NRZI formats, 6.0 amps @ +5 volts
- Controls up to 4 tape drives

WESTERN PERIPHERALS SMD DISK CONTROLLERS
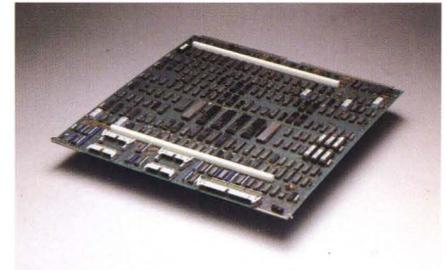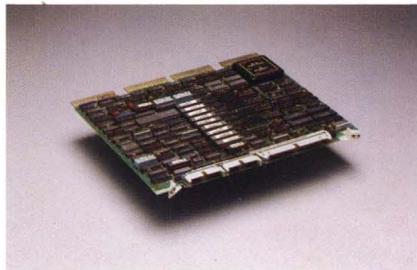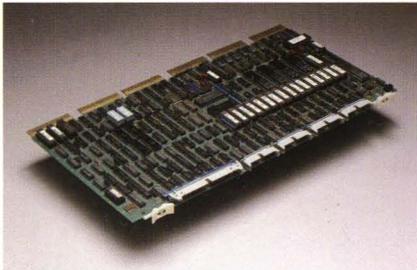


DISK DIMENSION I DEC UNIBUS

DEC MODELS: PDP-11/04 through 11/70 and VAX-11/730 through 11/780

INTERFACE—Compatible with drives designed with the industry standard SMD interface

FEATURES:
- Software transparent to all DEC operating systems
- Emulates the DEC RM02/03, RM05 or RP06 disk subsystems
- VAX - VMS handler included for all VAX installations
- Supports overlapped seek emulation
- Auto-throttle DMA
- 4-sector data buffer
- Controls up to 4 drives in mixed sizes
- Supports dual porting of drives
- Single hex board design requires 7.9 amps @ +5 volts and 0.5 amps @ −15 volts
- Power up self test with LED fault indicators

DISK DIMENSION II

All the above features and an expanded data rate capability to handle up to 2 megabyte/second data transfer rate of the newer model expanded SMD disk drives.

DC-251 DEC Q-BUS

DEC MODELS: LSI-11/02 through LSI-11/23/Plus

INTERFACE—Compatible with drives designed with the industry standard SMD interface

FEATURES:
- Software transparent to all DEC operating systems
- Emulates RM02/03, RM05 disk subsystems
- 22 bit DMA configuration option
- Three sector data buffer
- Controls up to two drives in mixed sizes
- Supports dual porting of drives
- Automatic DMA throttling
- Single quad module requires 6 amps @ +5 volts
- Power up self test with LED fault indicators

DC-221 DATA GENERAL SMD DISK CONTROLLER

DATA GENERAL MODELS: All NOVA, ECLIPSE and other Data General Emulating Computers

INTERFACE—Compatible with drives designed with the industry standard SMD interface

FEATURES:
- Software transparent to RDOS, AOS, IRIS and BLIS/COBAL operating systems
- Emulates DG 606X "zebra" family
- Compatible with DG Diagnostics
- Two sector "ping-pong" data buffer
- Selectable DMA burst rate
- Extensive self test feature
- Supports dual porting of drives
- Single board embedded design
- Up to four drives, 40 to 675 megabytes
- Intermix of drive sizes

WESTERN PERIPHERALS MULTIBEST™ CONTROLLER PRODUCTS

MULTIBEST™ Products are a new family of controllers and peripheral processors designed to expand the function and capability of Intel Multibus® interface compatible computer systems.
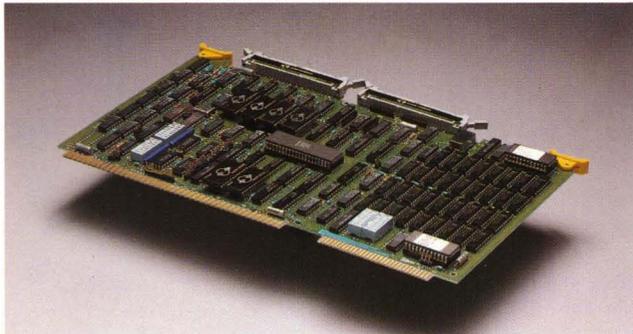
MULTIBUS—MB-506/1000 DISK CONTROLLER FOR WINCHESTER AND FLOPPY DISK DRIVES

DRIVE COMPATIBILITY—ST506, SA/1000, SA400 Series Interface Standards

FEATURES:
- Software compatible to Intel iSBC 215 Winchester Disk Controller
- Mixed Capacity Drives—
  Up to three Winchester disk drives
  Up to four Floppy disk drives
- Transparent Floppy disk operation
- Offline back-up capability when used with Western Peripheral's companion controller for ¼″ cartridge tape drives with QIC-2 interface standard
- 16, 20, or 24-bit addressing
- Programmable sector interleave
- Support for Winchester drives with eight heads
- Overlapped seeks
- Transparent error correction
- Automatic retry
- Single board IEEE-796 standard bus
- Self test
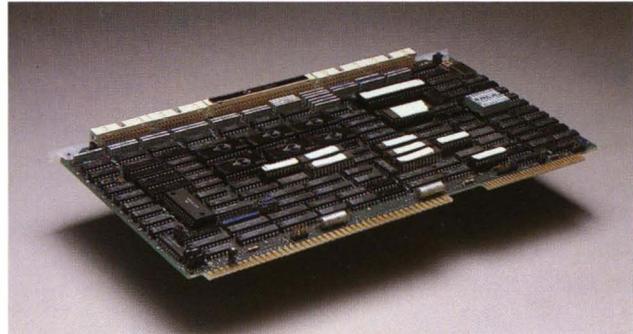
MULTIBUS MB-SMD DISK CONTROLLER

INTERFACE—Compatible with drives designed with the industry standard (SMD) storage module device interface including (LMD)

FEATURES:
- Software compatible—emulates Intel's iSBC 220 Disk Controller
- Meets requirements IEEE-796 standard specifications
- 16, 20, or 24-bit addressing
- Programmable DMA throttle
- Capacity—up to four drives
- Mixed drive capacities
- Disk transfer rates up to 2.0 megabytes/second
- 3-sector data buffer
- Programmable sector interleave (non-interleave standard)
- Overlapped seeks
- 11 bits of disk cylinder address
- Auto error recovery and retry
- Full cylinder transfers with no loss of revolutions
- ECC 11 bits of correction

COMPANION LINK—MB-Q2 TAPE CONTROLLER

The MB-506/1000 Winchester Disk Controller has a companion link (MB-Q2 tape controller) which enables the disk controller to utilize a ¼″ cartridge tape drive for off-line operation.

The master/slave relationship between the disk and tape is accomplished by a short interconnecting cable. This link allows the disk controller to communicate with the tape controller via a separate bus, allowing transparent image back-up and/or image restore with no overhead to the host.

The Q2 tape controller subsystem can also be used in stand-alone applications.

MULTIBUS—MB-Q2 TAPE CONTROLLER FOR ¼″ TAPE DRIVES

INTERFACE: QIC 2 INTERFACE STANDARD

DRIVE COMPATIBILITY—Variety of standard ¼″ cartridge tape drives with QIC 2 interface standard

FEATURES:
- Off-line backup compatibility—when used with Western Peripherals: Companion Winchester/Floppy disk controller—Model MB-506/1000
- Compatibility—Protocol compatible to Intel iSBC 215
- Low Cost—High Capacity Backup
- Four drive capability
- 16, 20, or 24-bit addressing
- Single board IEEE-796 standard bus
- Self test

# DATASYSTEMS LINE PRINTER CONTROLLERS

DEC LINE PRINTER CONTROLLERS
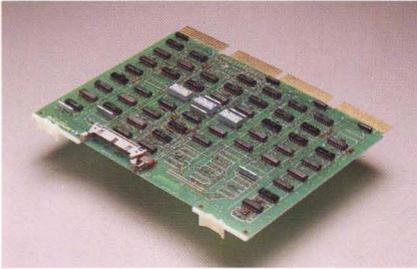
DLP-11 DEC UNIBUS COMPATIBLE

DEC MODELS: PDP-11/04 through PDP-11/70 and VAX-11/730, 11/750, 11/780

INTERFACE—Operates with all printers using Centronics or Dataproducts interface standards and DEC LA-180 printers

FEATURES:
- Software transparent (with DEC and Unix operating systems and diagnostics) LP11/LS11 compatible
- Switch selection of configurations and addressing
- Parallel transfer rate 300K bytes/second
- On board long lines capability (optional)
- Single quad module—requires only 950ma @ +5 volts
- Simple installation
- Self test—tests printer, cable, and controller—switch activated
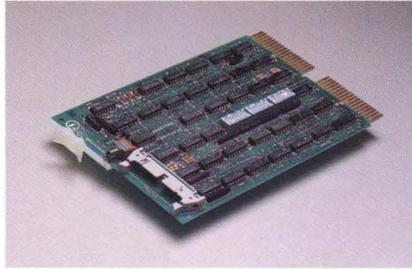
DLP-1100—DEC Q-BUS COMPATIBLE

DEC MODELS: LSI-11/02 through LSI-11/23 Plus, Micro PDP-11

INTERFACE—Operates with all printers using Centronics or Dataproducts interface standards and DEC LA-180 printers

FEATURES:
- Software transparent (with DEC and Unix operating systems and diagnostics) LP11/LS11 compatible
- Switch selection of configurations and addressing
- Parallel transfer rate 300K bytes/second
- Long lines capability (optional)
- Single quad module (requires only 825ma @ +5 volts)
- Simple installation
- Self test—tests printer, cable, and controller—switch activated
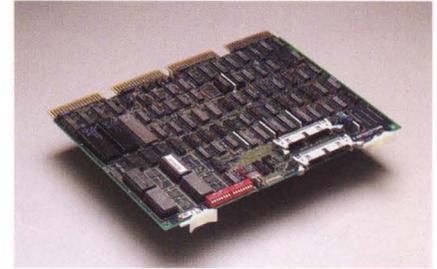
DLP-1132 DEC DUAL DMF32 EQUIVALENT DMA CONTROLLER

DEC MODELS: UNIBUS VAX COMPUTERS

INTERFACE—Operates with all printers using Centronics or Dataproducts interface standards

FEATURES:
- High performance buffered DMA
- 271 character buffer
- Emulates one or two DMF32 DMA line printer controllers
- Compatible with VAX/VMS operating systems version 3.0 or later
- LC driver compatible
- Long lines capability (optional)
- Supports two printers simultaneously at speeds in excess of 2000 lines per minute
- Single quad module—requires 5 amps @ +5 volts
- Simple installation
- Self test—tests printer, cable, and controller on power up and/or switch activated
- LED status indicators

## DATA GENERAL LINE PRINTER CONTROLLERS
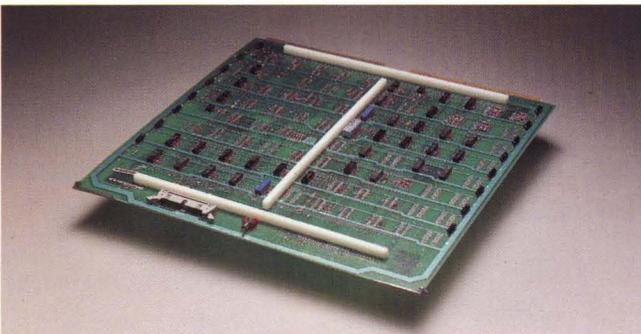
DLP-1200 DATA GENERAL I/O BUS CONTROLLER

DATA GENERAL MODELS: NOVA or ECLIPSE Computers

INTERFACE—Operates with all printers using Centronics or Dataproducts interface standards

FEATURES:
- Software transparent to DG host computer operating systems, line printer diagnostics and IRIS and BLIS/COBOL operating systems
- Optional Programmable Interval Timer
- Switch selection of configuration and addressing
- On board long lines capability (optional)
- Parallel transfer rate—125,000 bytes/second maximum transfer rate
- Single 15" x 15" board—requires 1.5 amps @ +5 volts
- Simple installation
- Self test—tests printer, cable, and controller—switch activated
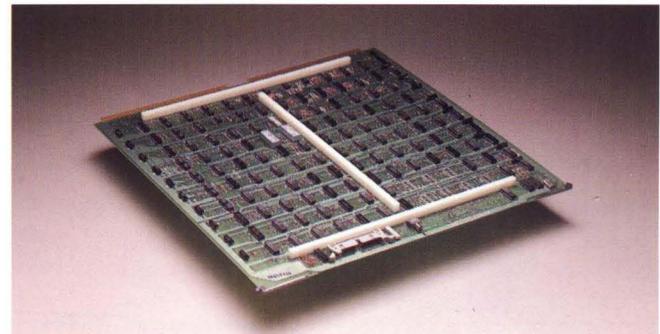
DLP-2200 DATA GENERAL DMA CONTROLLER

DATA GENERAL MODELS: NOVA, ECLIPSE, and MV series computers

INTERFACE—Operates with all printers using Centronics or Dataproducts interface standards

FEATURES:
- Data General data channel compatible
- Software transparent to host DG computer operating systems, line printer diagnostics, and BLIS/COBOL operating systems
- Optional Programmable Interval Timer
- Switch selection of configuration and addressing
- On board long line capability (optional)
- Parallel transfer rate—125,000 bytes/second maximum transfer rate
- Single 15" x 15" board requires 2.5 amps @ +5 volts
- Simple installation
- Self test—tests printer, cable, and controller—switch activated

DATASYSTEMS LINE PRINTER CONTROLLERS
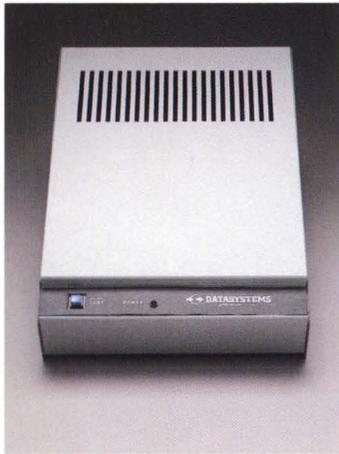
WANG SERIES

DLP-4400
WANG Laboratories Inc.
COMPATIBLE LINE
### PRINTER CONTROLLER

WANG SERIES:
(VS) Virtual Storage Systems—
  VS-25 through VS-100
(OIS) Office Information Systems
(WP) Word Processing Systems
INTERFACE—Operates with all
printers using Centronics or
Dataproducts interface standard

FEATURES:
- Emulates Wang Band Printer models 5573, 5574, and 5575
- Parallel interface operates at speeds up to 1200 LPM
- External, FCC83 recognized container
- Self contained power—110/220 VAC
- Simple installation
- Self test—tests printer, cable, and controller on power up and/or switch activated

IBM SERIES/1
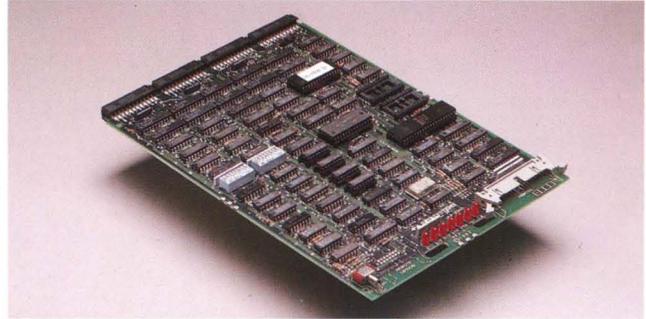
DLP-3300 IBM SERIES/1 COMPATIBLE

IBM MODELS: 4952, 4953, 4954, 4955, or 4956 processor chassis, or the 4959 I/O expansion unit

INTERFACE—Operates with all printers using Centronics or Dataproducts interface standards

FEATURES:
- Software transparent with all IBM Series/1 operating systems
- Emulates IBM 4973 line printer subsystem, includes DMA
- Parallel interface operates at over 2000 lines per minute
- Switch selectable configurations and addresses
- Long lines capability (optional)
- Simple installation
- Single 7" x 11" module requires only 3 amps @ +5 volts
- Self test—tests printer, cable, and controller on power up and/or switch activated
- LED status indicators

DEC Q-BUS DISK PRODUCTS

DISK CONTROLLERS
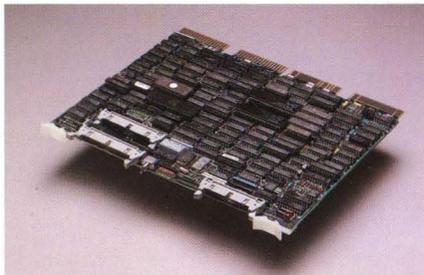
DATASYSTEMS MODELS 5121/5122— WINCHESTER DISK CONTROLLERS

DEC MODELS: All Q-Bus Compatible Processors
DRIVE COMPATIBILITY—Model 5121—5¼" disk
  drives with Seagate ST506 Interface
  Model 5122—8" disk drives with Shugart
  SA1000 Interface

FEATURES:
- Software transparent—emulates DEC RLV-11/12 attached to one or more DEC RL01/02 disk drives. Five to 40 megabytes, compatible with DEC diagnostics
- Disk formatter—includes a built-in formatter, permits Winchester disk to be formatted in field—no floppy disk required
- Disk optimization—selectable sector interlacing for optimum performance. Buffered/ unbuffered seek control for minimum seek times
- Data integrity—media flaws are detected and flagged at format time. Data and header CRC generation and checking
- Capacity—up to four drives per controller
- Single quad board
- Bootloader—automatic bootstrap load
- Self test—complete built-in micro diagnostic
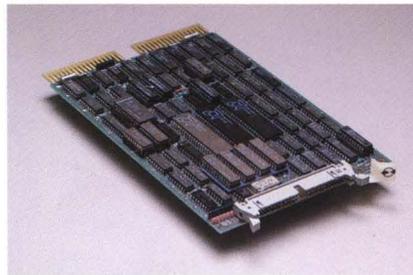
DATASYSTEMS MODEL 5510—DEC Q-BUS FLOPPY DISK CONTROLLER

DEC MODELS: All Q-Bus Compatible Processors
DRIVE COMPATIBLITY—Most popular 8" Floppy
  Disk Drives which have Shugart SA 800/801,
  SA 850/851, SA 810, SA 860 standard interfaces

FEATURES:
- Software transparent—emulates DEC RXV21/RX02/RX03 Subsystem
- Media compatibility—media compatible with DEC RX01/02/03, or IBM 3740 family of equipment and quality brand-name equivalents
- Disk Formatter—includes a built-in formatter; formats either single or double density, and handles blank and preformatted diskettes
- Bootloader—user selectable bootstrap ROM provided to load from Floppy Disk, RL01/02 compatible hard disk, or TU-58 cartridge tape
- Capacity—up to two drives per controller. Provides Floppy Disk storage of 256K bytes to two megabytes
- One dual width printed circuit board
- Self test—complete built-in micro diagnostics, checks controller upon power on

INTEGRATED DISK SUBSYSTEMS

DATASYSTEMS SERIES 6900—DEC Q-BUS DISK SUBSYSTEMS

Totally integrated, includes Controllers, Drives and Enclosures

DEC MODELS: All Q-Bus Compatible Processors
EMULATES—DEC's RL01/02 and RX01/02/03

FEATURES:
- Software Transparent with all DEC operating systems
- Capacity: Winchester—5.2 megabytes formatted (one RL01) to 41.6 megabytes formatted (four RL02's) of fixed Winchester capacity
- Capacity: Floppy Disk—.25 megabytes (one RX01) to 2 megabytes (two RX03's)
- Formatter—on board formatter for both Winchester and Floppy Disk drives
- Upgradability—Winchester capacities may be field-upgraded with no change in the enclosure; except in power requirements
- Bootload—on board, user selectable, BDV-11 compatible bootload provides boot operation from either RL, RX or TU
- Self test—complete built-in micro diagnostics verifies operation of controller, drive interface and BUS interface

WESPERGROUP
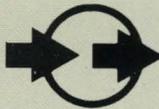
Division of *WESPERCORP*

*Products and specifications are subject to
change without notice.*

All products are sold F.O.B. Tustin, California.

*Wespergroup Products are serviced nation-
wide by General Electric Company, Computer
Services Department.*

*Wespergroup Technical Support Centers are
located in:*
Boston, MA
Dallas, TX
Tustin, CA