CALCOMP

TRIDENT T-200 DISK DRIVE

CalComp's Model T-200 Disk Drive offers OEM designers the advantages of field-proven IBM 3330-type technology and construction. With a capacity of 200 megabytes, this unit has been designed to be functionally compatible with the other drives in the TRIDENT family (T-25, T-50, T-80 and T-300).

High Performance Contamination Control System
Air filters assure that clean air is circulated within a fully closed air system to cleanse and cool critical moving parts, which include the pack, heads and carriage & way assembly.

Designed for Easy Maintenance
All subassemblies are modular for ease of maintenance and are conveniently accessible for service without the necessity of major disassembly. Electronic components are functionally organized on pluggable printed circuit modules. An optional exerciser/monitor can be used to test drive operation off-line without unplugging system cabling. The exerciser can also monitor drive performance on-line to the CPU.

Proven Design Features
Disk packs can be obtained from any approved IBM 3336-11 pack supplier. Sector lengths are jumper selected in one byte increments. Rigid one-piece deck plate casting controls instability and mechanical resonance. The high performance phase-locked data separator is a standard feature which is an integral part of the disk drive. The TRIDENT family of disk drives features a commonality of interfaces, allowing a selection of capacities best suited for a given design. A single controller can drive any TRIDENT model without any modification.

T-200 TRIDENT DISK DRIVE

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SPECIFICATIONS AND CHARACTERISTICS

CAPACITY
208.1 megabytes

BYTES/TRACK
13440

BYTES/CYLINDER
255,360

CYLINDERS/PACK
815

BIT DENSITY
4040 bpi

TRACK DENSITY
370 tpi

TRANSFER RATE
806 kilobytes per second

ROTATIONAL SPEED
3600 rpm

AVERAGE LATENCY TIME
8.3 ms

ACCESS TIME
Track to Track: 7.5 milliseconds
Average: 30 milliseconds
Maximum: 55 milliseconds

START/STOP TIME
Start: 25 seconds (nominal)
Stop: 25 seconds (nominal)

RECORDING SURFACES
19 data and 1 servo surface

OPERATING ENVIRONMENT
Temperature: 60° to 100°F (16° to 38°C)
Temperature Gradient: 20°F per hour (11°C per hour)
Humidity: 10% to 80% (no condensation)

ERROR RATE
Recoverable: 1 error in 10^{10} bits
Non-recoverable: 1 error in 10^{13} bits
Positioning: 1 error in 10^{6} seeks

RELIABILITY
MTBF: Designed to exceed 2500 hours
MTTR: Designed to be less than 90 minutes
Service Life: 5 years or 45,000 hours

CONTROLS & INDICATORS
Ready Indicator
Fault Indicator
Start/Stop Switch
Degate Switch
Read Only Switch
Interface Enable (Dual Access option only)

DIMENSIONS
19.5″ wide × 36″ high × 33″ deep
(495 mm wide × 914 mm high × 838 mm deep)

WEIGHT
480 pounds (218 kg)

POWER REQUIREMENTS
208/240 Vac +10%, −15%
60 Hz ±0.5 Hz, 50 Hz ±1 Hz
5 amps-running, 25 amps-starting (10 seconds)

HEAT DISSIPATION
3500 BTU/hour (832 kilocalories/hour)

OTHER FEATURES
Variable Record Length
NRZ Data Interface
Off-Line Exerciser (Optional)
Dual Access (Optional)

CALCOMP
California Computer Products, Inc.
2411 W. La Palma, Anaheim, CA 92801
Tel (714) 821-2011 Twx 910-591-1154

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