

EXB-8200 Product Description and Specifications

Full-width erase head

SCSI interface, controller/formatter, and drive electronics are implemented in CMOS gate arrays, and Surface Mount Technology (SMT)

Rotary Drum Assembly contains read, write, and servo heads in read-after-write configuration

8mm tape transport provides gentle tape

handling

Cartridge door/front load mechanism

Controller Features

Integrated SCSI Controller and Formatter Standard SCSI Interface Connection (single-ended or differential) Onboard Error Correction Code (ECC)

and Error Recovery Procedures (ERP) ECC: Reed-Solomon Product Code 256 KByte Speed-Matching Buffer

SCSI Command Set

Test Unit Ready Rewind Request Sense (Extended) **Read Block Limits** Read Write Write Filemarks Inquiry Space Recover Buffered Data Mode Select **Reserve Unit Release Unit** Copy* Erase Mode Sense Load/Unload **Receive Diagnostic Results** Send Diagnostics Prevent/Allow Medium Removal *per user's requirements

SCSI Characteristics

SCSI Specification - ANSI X3.131-1986 Conformance Level - 2 Sequential Access Device SCSI Bus Parity - Configurable Full Disconnect, Arbitration, Reconnect Asynchronous Data Transfer Supported Single Ended - ANSI Spec Connector Type Non-shielded

Termination — Removable Termination PWR - Use/Not supplied

Formatted Capacity

User selectable data cartridges from 256 MBytes to over 2,000 MBytes

Cartridge Size	Length (ft.)	Maximum Formatted Capacity (MBytes)
256	45	291
512	90	583
1024	180	1166
1536	270	1750
2048	360	2332

Format Reco

Recording	8mm Helical-Scan
format	Digital Computer Tape
Head	Read after write
configuration	with separate full width erase head
Linear recording density	43,200 bits/in.
Track density	819 TPI
Areal recording density	35 million bits/sg. in.
Gonory	bitoroq. III.

Reliability

Non-recoverable error rate: Less than one in 1013 bits read MTBF:>20,000 hours at typical usage MTTR:<30 minutes Preventive maintenance: None required

Performance

STILLE

Transfer rate (peak): 1.5 MBytes/sec. Transfer rate (sustained): 246 KBvtes/sec

Buffer size: 256 KBytes Electronic buffer access time: 400 microseconds

Tape Motion

Tape speed: 0.429 ips/10.89 mm/sec. Rotor speed: 1800 rpm Effective head to tape speed: 150 ips Max. rewind speed: 75 times nominal File search speed: 10 times nominal

Physical Dimensions

Height: 3.25 in. Width: 5.75 in. Depth: 8.0 in. (Standard 5.25 in. form factor) Weight: 4.5 lbs

Power

+5/+12 volts $\pm 4\%$ 15 watts

Environmental

Operating temperature: +5°C to +40°C $(+41^{\circ}F \text{ to } +104^{\circ}F)$ Non-operating temperature: - 20°C to $+60^{\circ}C(-4^{\circ}F to +140^{\circ}F)$ Relative humidity (non-condensing): 20% to 80%

Media

Standard 8mm tape cartridge $(3.7 \times 2.5 \times 0.6 \text{ in.})$

Models

EXABLE VITE

EXB-8200 S — Single-Ended SCSI EXB-8200 D — Differential SCSI

All specifications are subject to change without notice.