

Built-In SCSI Interface Controller

Host computer loads are reduced, and system expansibility boosted, by the built-in SCSI interface, with its intelligent interface capabilities.

Compact, Lightweight Design

Their size of 105W×42H×162D(mm), combined with 500g weight (FD-235HS), make these intelligent drives a natural choice for personal computers and work stations.

Built-In Data Buffer for High-Speed Data Transfer

The interface controller's 30KB buffer makes possible data transfer speeds to the host as high as 556KB/sec, reducing waiting time and host loads.

2MB or 4MB Storage Capacities

The FD-235HS offers 2MB capacities. The FD-235JS extends this to 4MB, using barium ferrite coated Extra Density

(ED) disks and high density perpendicular magnetization method.

Full Compatibility With Other Media

Multi-format capabilities let the FD-235HS handle read and write operations on both 2MB and 1MB disks. The FD-235JS extends this to either 4MB, 2MB and 1MB disks or 4MB, 1.6MB and 1MB disks. All media with the same storage capacity are fully compatible.

A Single +5V DC Supply

Designed to operate on a +5V DC supply, +12V DC supplies are completely unnecessary.

Low Power Consumption

TEAC combined efficient electronic circuits in custom LSIs with a high-performance drive motor to achieve low power consumption and correspondingly low heat generation—with improved precision and reliability.

SPECIFICATIONS

SCSI Interface Controller

Interface: SCSI (ANSI X3, 131-1986)

Data Transfer Rates:

Drive side: 250Kbits/sec, 500Kbits/sec, 1Mbit/sec.

VFO Lock Range: ±5%

Formats: 1—2MB modes; IBM format

4MB mode; 3 1/2" PFD format (pre-erase type)

Data Buffer Capacity: 30KBytes

Terminator: Mounted (removable)

SCSI ID: SCSI ID=0 (when shipped)

Parity Stop: ON/OFF possible (OFF when shipped)

Drive

Recording Method: FM or MFM

Media: Extra-high density (2ED) (FD-235JS), high density (2HD), or normal density (2DD) (FD-235HS/FD-235JS); 3 1/2" micro floppy disks

Data Transfer Rates:

500/250 Kbits/sec (FD-235HS)

1,000/500/250 Kbits/sec (FD-235JS)

Tracks/Disk: 160

Track Density: 135tpi

Number of Cylinders: 80

Data Capacity: 2,000/1,000KB (FD-235HS)

4,000/2,000/1,000KB or

4,000/1,686.6/1,000KB (FD-235JS)

Rotation: 300rpm (FD-235HS)

Speed: 300rpm or 300/360rpm (FD-235JS)

Average Access Time (inc. settling time): 94msec

Track-to-track Time: 3msec

Settling Time: 15msec

Motor Starting Time: 480msec or less

Average Latency Time: 100msec (300rpm)

83.3msec (360rpm)

Index: 1/revolution

Error Rate: Soft read error: 1/10⁶ bits or less

Hard read error: 1/10¹¹ bits or less

Seek error: 1/10⁶ seeks or less

General

MTBF: 10,000 hours or more

MTTR: 30 minutes or less

Safety Standards: Complies with UL and CSA.

Ambient Temperature:

Operating: 4—60°C (40—122°F)

Storage: -22—60°C (-8—140°F)

Transportation: -40—65°C (-40—149°F)

Temperature Gradient:

Operating: 15°C/hr or less (non-condensing)

Storage & transportation: 30°C/hr or less,

(non-condensing)

Relative Humidity:

Operating: 20—80% (non-condensing)

(Max. wet bulb temperature 28°C[84°F])

Storage: 10—90% (non-condensing)

(Max. wet bulb temperature 40°C[104°F])

Transportation: 5—95% (non-condensing)

(Max. wet bulb temperature 45°C[113°F])

Vibration:

Operating: 1.5G or less (10—100Hz, 3-minute sweep time)

0.5G or less (100—200Hz, 3-minute sweep time)

0.25G or less (200—600Hz, 3-minute sweep time)

Transportation: 3G or less (10—100Hz, 3-minute sweep time)

Shock:

Operating: 5G or less (less than 11msec)

Transportation: 50G or less (less than 11msec)

Power Requirements: +5V DC ±10% (12V DC supply

unnecessary)

Permissible ripple: 100mVp-p or less

Power Consumption:

Standby: 0.5W typ (FD-235HS)

0.45W typ (FD-235JS)

Read/write: 1.85/2.15W typ (FD-235HS)

1.6/1.85W typ (FD-235JS)

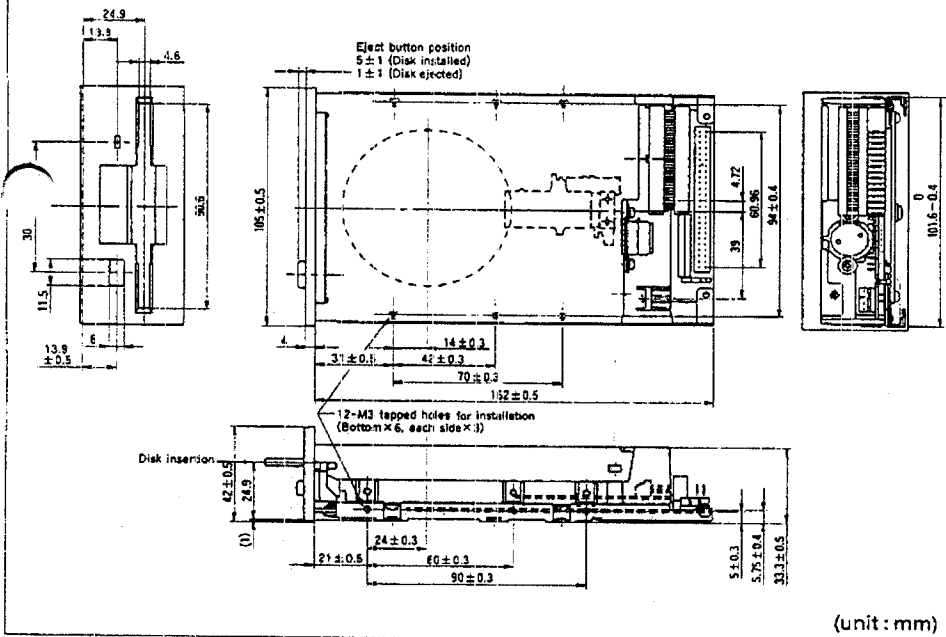
Dimensions (W×H×D) (approx.):

105×42×162(mm) (4 1/8×1 5/8×6 3/8[inch])

Weight (approx.): 500g typ (1.10 lbs.) (FD-235HS)

510g typ (1.12 lbs.) (FD-235JS)

Dimensions



TEAC CORPORATION

DATA STORAGE PRODUCTS DIVISION

Musashino Center Bldg., 1-19-18 Naka-cho, Musashino, Tokyo 180, Japan
Phone: 0422-52-5041 Telex: 34435 (TEACBH J) Fax: 0422-55-2554

TEAC AMERICA, INC.

7733 Telegraph Road, Montebello, California 90640, U.S.A.

Phone: (213) 726-0303, 727-7609 Telex: 677014 (TEAC MBLO) Fax: (213) 727-7652

TEAC Deutschland GmbH

Arzbergerstr. 10 D-8036 Hersching, F.R. Germany

Phone: 08152-37080 Fax: 08152-370826

Features and specifications are subject to change without notice.

* IBM is a trademark of the International Business Machines Corporation