

TEAC[®]

3 1/2-Inch Micro Floppy Disk Drives

FD-335HS / FD-335JS

2MB or 4MB Storage Capacity

- Built-in intelligent SCSI interface controllers
- Simple SCSI bus connection
- Reduced loads on host
- 1-inch height gives excellent space factor
- One +5V DC supply and low power consumption

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Ultra Slim FDDs with Intelligent SCSI Interface

The FD-335HS and FD-335JS are only one inch high with a built-in advanced SCSI interface with intelligent functions. By reducing the load of the host CPU, these functions boost system expansibility and increase data transfer speed. Wide ranging applications and a compact, space-saving size give the FD-335HS and FD-335JS a leading edge in FDD design.

Built-In SCSI Interface Controller

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

Compact, Lightweight Design

Their size of 101.6W × 25.4H × 150D(mm), combined with 365g weight (FD-335HS), 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-335HS offers 2MB capacities. The FD-335JS 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-335HS handle read and write operations on both 2MB and 1MB disks. The FD-335JS 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-335JS), high density (2HD), or normal density (2DD) (FD-335HS/FD-335JS) 3 1/2" micro floppy disks

Data Transfer Rates:

500/250 Kbits/sec (FD-335HS)

1,000/500/250 Kbits/sec (FD-335JS)

Tracks/Disk: 160

Track Density: 135tpi

Number of Cylinders: 80

Data Capacity: 2,000/1,000KB (FD-335HS)

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

4,000/1,686.6/1,000KB (FD-335JS)

Rotation: 300rpm (FD-335HS)

Speed: 300rpm or 300/360rpm (FD-335JS)

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; 1/10¹² bits or less

Seek error; 1/10⁶ seeks or less

General

MTBF: 10,000 hours or more

MTRR: 30 minutes or less

Safety Standards: Complies with UL, CSA and TÜV.

Ambient Temperature:

Operating; 4—50°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 29°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

Read/write; 1.9/1.9W typ (FD-335HS)

2.0/2.1W typ (FD-335JS)

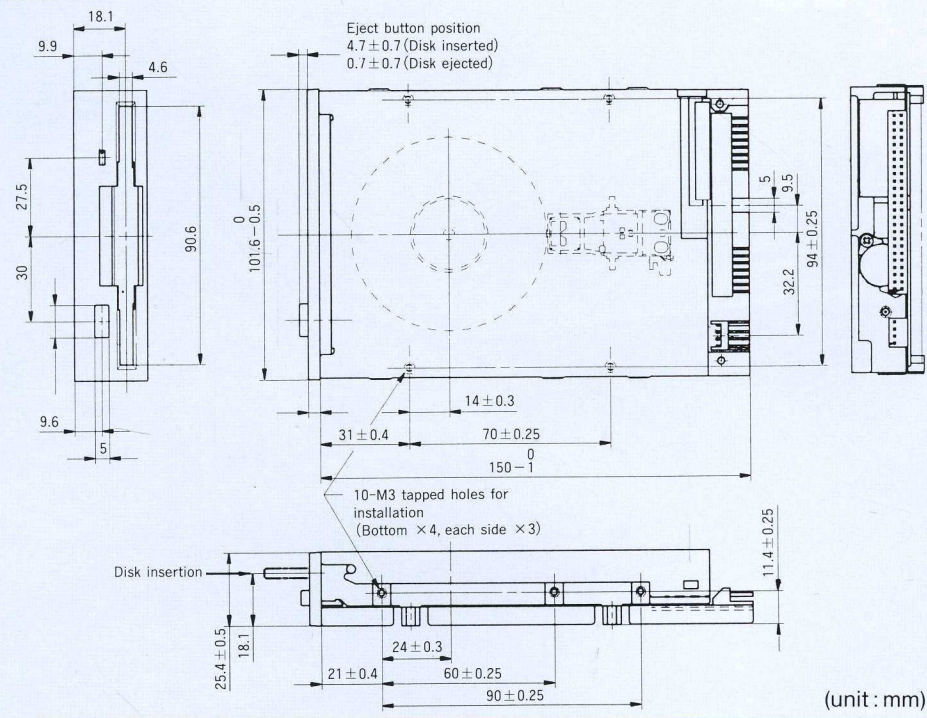
Dimensions (W×H×D) (approx.):

101.6×25.4×150 (mm) [4×1×5 7/8 (inch)]

Weight (approx.): 365g typ (0.8 lbs.) (FD-335HS)

370g typ (0.82 lbs.) (FD-335JS)

Dimensions



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Features and specifications are subject to change without notice.

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