iCom® MICROPERIPHERALS®

iCOM® FD3700 Series Floppy Disk Systems for Microcomputers

iCOM® Model FD3712 Dual Drive System

THE NEW STANDARD

The iCOM FD3700 Series Floppy Disk System for microcomputers continues in the fine tradition of the famous iCOM FD360 in use throughout the world. The FD3700 brings to the OEM, and to the development lab, proven reliability and popular features, while incorporating advanced styling and new convenience items. The FD3700 Series is the new standard to which other floppy disk systems will be compared.

FEATURES

- Fully IBM 3740 media and format compatible
- Full formatter and controller built-in
- Full sector Read/Write buffers allow asynchronous or DMA data transfer
- Drive and diskette Write Protect capability
- Positive latching door mechanism
- Up to 4 drives with no software or hardware modifications
- MTBF in excess of 2300 hours (FD3712 dual drive)
- Plug-in convenience allows MTTR of 18 minutes
- Front panel LED status indicators
- LED drive select indicators
- Fully retracting head and pressure pad for maximum diskette life
- 50 pin flat ribbon cable with 3M interface connector — FD360 compatible

PERFORMANCE SPECIFICATIONS

- Disk Speed 360 RPM ± 1.5%
- 10 ms Track to Track Access Time
- 40 ms Head Load Time
- 5 ms Sector Read/Write Time
- 83 ms Average Latency Time
- 700 ms Automatic Head Unload Time
- 1 ms Interrecord Time

FULLY COMPATIBLE WITH iCOM SOFTWARE AND INTERFACES

Interfacing is easy using any of iCOM's plug-in interface and software packages for most popular microcomputers. For the OEM or development system application, iCOM interfaces are the convenient and economical answer. All iCOM interface packages are plug-in compatible with the FD360, the FD3712 and the popular iCOM Frugal Floppies.™ For unique applications, a simplified general purpose TTL compatible interface is also available at no extra cost.

BUILT-IN COMMAND FUNCTIONS

iCOM's sophisticated controller features the following built-in command functions to simplify total system integration:

- SEEK AND VERIFY: Automatically Seeks Track and Verifies Track Address from ID Field on Diskette
- SEEK TRACK Ø (Seek Track Ø)
- SECTOR AND UNIT SELECT (Specifies Sector and Unit Number for Read/Write Operation)
- TRACK SELECT (Specifies Track to be used by next Seek)
- WRITE: (Writes the Contents of Write Buffer to the selected Sector and Unit on the existing track)
- READ (Reads the Contents of Selected Sector into Read Buffer)
- WRITE DELETED DATA ADDRESS MARK (Same as Write but uses header in Data Field which can later be detected in Read operation)
- READ CRC (Same as Read but no data is transferred to the Read Buffer. Used to verify integrity of data previously written)
- SHIFT WRITE BUFFER (Loads Data into Write Buffer)
- SHIFT READ BUFFER (Inputs Data from Read Buffer)
- GATE STATUS (Gates Status of Data onto Input Data Lines)

POWER REQUIREMENTS: 110-125 VAC, 60 Hz, 200 watts max.

CABINET DIMENSIONS: 7.75 x 19.16 x 20.5 inches (H,W,D)
196.8 x 486.6 x 520.0 mm (H,W,D)

Ordering Information:

- FD3711 Single Drive (One cabinet, second drive can be added)
- FD3712 Dual Drive (One cabinet as shown in above photo)
- FD3713 Triple Drive (Two cabinets)
- FD3714 Four Drive (Two cabinets, over 1 megabyte capacity)

Options:

- –19 Standard 19 inch rack mounting. 7 inch high panel.
- –12 220-240 VAC, 50 Hz input power, 200 watts max.

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