



MODEL 1300

1.3GB THE INDUSTRY-STANDARD DAT

FEATURES

- 1.3 gigabytes of removable storage.
- 183KB per second data transfer rate.
- Standard SCSI-1 or SCSI-2 interfaces (selectable).
- Computer DAT mechanism designed for data applications requiring high duty cycle mechanical reliability.
- 5.25-inch half-high form factor.
- Industry-standard DDS™ format with fully certified compliance.
- 4MB per second asynchronous burst transfer rate.
- 5.3MB per second synchronous burst transfer rate.
- Low-cost shirt-pocket size cassette.
- 20-second average data access time.
- Read-after-write data verification and threshold check.
- Three layers of hardware ECC.
- Remaining-tape-capacity information.

The WangDAT™ Model 1300 4mm computer DAT (Digital Audio Tape) drive is the ideal high-capacity 5.25-inch half-high removable tape storage solution. It represents a quantum leap over other technologies for hard-disk backup, archival storage and data logging.

The Model 1300 incorporates an advanced computer DAT mechanism with direct drive reel motors for precise speed control; a four-head drum with read-after-write heads, fully balanced to reduce ISV (instantaneous speed variation); direct "in-path" closed-loop tension control; and an independent capstan motor for reliable recording.

Utilizing helical scan recording technology and the DDS format developed by Hewlett-Packard® and Sony®, the Model 1300 delivers 1.3 gigabytes of removable storage in a durable shirt-pocket size 4mm data cassette. The Model 1300 offers a sustained transfer rate of nearly 11 megabytes per minute and the highest SCSI burst rate available—5.3 megabytes per second!

WangDAT incorporates VLSI integration, a highly efficient architecture and compact implementation to achieve a fully implemented SCSI solution. And WangDAT's SCSI interface is a full implementation of SCSI-1 and SCSI-2, including all mandatory and most optional commands, including COPY!

To ensure data integrity, the Model 1300 uses three layers of hardware ECC code, full read-after-write data verification, data-frame checksums and data randomization.

The WangDAT Model 1300 is today's standard in the DAT industry, with a field-proven MTBF of over 50,000 hours—from WangDAT, a company you can count on. That's why you can be assured that every Model 1300 is the best DAT there is.



DAT'S All We Do.

MODEL 1300

4MM DAT CASSETTE TAPE DRIVE



DRIVE DIMENSIONS

Height	1.625 in. (4.13cm)
Width	5.75 in. (14.61cm)
Depth	8.00 in. (20.32cm)

INTERFACE

Interface Specification	SCSI-1 or SCSI-2 (switch selectable) X3.131-1986/QIC-104 (SCSI-1) X3.131-198X (SCSI-2)
Device Type	Sequential single-ended or half-high differential (optional)

PERFORMANCE

Capacity	1.3GB
Transfer Rate	
Sustained	183Kbytes/sec.
Burst (SCSI)	4.0Mbytes/sec. (asynchronous) 5.3Mbytes/sec. (synchronous)

Tape Speed	
Read/Write	8.15mm/sec.
Average Access Time	20 seconds
Drum Speed	2000 rpm
Effective Tape Speed	
Speed	3.133m/sec. (123 ips)

Number of Heads	4 (2R and 2W)
Head Azimuth	± 20°
Linear Density	61Kbpi
Track Pitch	13.6 μm
Modulation	8/10 GCR

Reed Solomon ECC	
C1	GF (2 ⁸) (32,28)
C2	GF (2 ⁸) (32,26)
C3	GF (2 ⁸) (46,44)

Record Length	Fixed/variable
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RELIABILITY

Error Rate	
Non-Recoverable	<1 in 10 ¹⁵ bits
MTBF	>50,000 hrs. (30% tape motion)
MTTR	<30 min.

POWER

+5 VDC	
Tolerance	± 5%
Operational	1.0 amp nom. 1.5 amp max.

+12 VDC	
Tolerance	± 10%
Standby	0.25 amp nom.
Operational	1.0 amp max.
Power Dissipation	
Typical	<11 watts
Maximum	20 watts

ENVIRONMENTAL

Temperature	
Operational	5 to 45°C (41 to 113°F)
Storage	-30 to +60°C (-22 to +140°F)
Relative Humidity (non-condensing)	20 to 80%

RECORDING FORMAT

Specification	DDS (HP/Sony) X3B5/90-085 ECMA 139
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MEDIA

Industry-Standard	
4mm Digital Audio	
Tape (DAT) Size	
Height	10mm
Width	73mm
Depth	54mm
Tape Width	3.81mm
Tape Thickness	13 μm
Tape Length	60 meters

COMMANDS SUPPORTED BY THE MODEL 1300

COPY	RECOVER BUFFERED
ERASE	DATA
INQUIRY	RELEASE UNIT
LOAD/UNLOAD	REQUEST BLOCK
LOCATE	ADDRESS
LOG SELECT	REQUEST SENSE
LOG SENSE	RESERVE UNIT
MODE SELECT	REWIND
MODE SENSE	SEEK BLOCK
PREVENT/ALLOW	SEND DIAGNOSTIC
MEDIA REMOVAL	SPACE
READ	TEST UNIT READY
READ BLOCK LIMITS	VERIFY
READ BUFFER	WRITE
READ POSITION	WRITE BUFFER
READ REVERSE	WRITE FILEMARKS

Specifications are subject to change without notice.

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West Coast Regional Office: 2685 Marine Way, Suite 1220-F, Mountain View, CA 94043, (415) 967-6496, FAX: (415) 967-9534.

MODEL 2600

3GB THE HIGH-PERFORMANCE/CAPACITY DAT

FEATURES

- 3GB capacity, 5GB with long tape.
- Fast sustained data rate of 520KB/second.
- Standard SCSI-1 or SCSI-2 interfaces (selectable).
- Reliable computer DAT mechanism.
- 5.25-inch half-high form factor.
- DDS™ interchange with backward read/write capability.
- WangDAT Group Compression™ format.
- 4MB per second asynchronous mode burst transfers.
- 5.3MB per second synchronous mode burst transfers.
- 20-second average access time.
- Stac 9703 data-compression coprocessor.
- "Look-aside" compression implementation prevents data expansion.
- Three-level ECC and read-after-write data check.



The WangDAT™ Model 2600 5.25-inch, half-high computer DAT (Digital Audio Tape) drive was developed to meet the industry demand for higher capacity and performance. The Model 2600 delivers 3 gigabytes of removable storage at transfer rates above 30 megabytes a minute, 50 percent faster than standard 8mm tape drives, in only half the physical space. Featuring a *look-aside* implementation of data compression that guarantees no data expansion, the Model 2600 offers the highest level of compression efficiency and also supports long-length tapes for storage as high as 5GB. Onboard data buffering of 768Kbytes and efficient tape repositioning underpin this drive's outstanding performance.

The Model 2600 utilizes the industry-accepted Stac 9703 compression coprocessor, incorporating a variant of the LZ1 algorithm, proven reliable by nearly one million users. The LZ1 approach is able to achieve high compression ratios even for data files which change their nature abruptly.

The Model 2600's computer DAT mechanism, proven in WangDAT's Model 1300 drive, uses direct drive reel motors, a four-head balanced drum with read-after-write heads, direct "in-path" closed-loop tension control and an independent capstan motor for reliable recording. And, the Model 2600 offers dual formats, the industry-standard DDS format for data interchange and the WangDAT Group Compression format for high-capacity local backup.

In the Model 2600, with the combination of higher capacity, fast data transfer, standard SCSI interface and DDS support, WangDAT offers you the best DAT there is.

 **WangDAT™**
DAT'S All We Do.



MODEL

2600

4MM DAT CASSETTE TAPE DRIVE

DRIVE DIMENSIONS

Height 1.625 in. (4.13cm)
 Width 5.75 in. (14.61cm)
 Depth 8.00 in. (20.32cm)

INTERFACE

Interface SCSI-1 or SCSI-2 (switch selectable)
 Specification X3.131-1986/QIC-104 (SCSI-1)
 X3.131-198X (SCSI-2)
 Device Type Sequential single-ended

PERFORMANCE

	<u>DDS Mode</u>	<u>Compression Mode</u>
Capacity		
60 Meter Tape	1.3GB	3.7GB
90 Meter Tape	2.0GB	5.7GB
Transfer Rate		
Sustained	<u>DDS Mode</u>	<u>Compression Mode</u>
	183Kbytes/sec.	520Kbytes/sec.
Burst (SCSI)	4.0Mbytes/sec. (asynchronous)	
	5.3Mbytes/sec. (synchronous)	

Tape Speed
 Read/Write 8.15mm/sec.
 Average Access Time 20 seconds - 60 meter tape
 30 seconds - 90 meter tape

Drum Speed 2000 rpm
 Effective Tape Speed 3.133m/sec. (123 ips)
 Number of Heads 4 (2R and 2W)
 Head Azimuth ± 20°
 Linear Density 61Kbpi
 Track Pitch 13.6 μm
 Modulation 8/10 GCR
 Reed Solomon ECC

C1 GF (2⁸) (32,28)
 C2 GF (2⁸) (32,26)
 C3 GF (2⁸) (46,44)
 Record Length Fixed/variable

RELIABILITY

Error Rate
 Non-Recoverable < 1 in 10¹⁵ bits
 MTBF > 50,000 hrs. (30% tape motion)
 MTTR < 30 min.

POWER

+5 VDC
 Tolerance ± 5%
 Operational 1.0 amp nom.
 1.5 amp max.
 +12 VDC
 Tolerance ± 10%
 Standby 0.3 amp nom.
 Operational 1.0 amp max.
 Power Dissipation
 Typical < 8 watts
 Maximum 20 watts

ENVIRONMENTAL

Temperature
 Operational 5 to 45°C (41 to 113°F)
 Storage -30 to +60°C (-22 to +140°F)
 Relative Humidity (non-condensing) 20 to 80%

RECORDING FORMAT

Specification(s) DDS (HP/Sony) X3B5/90-085
 ECMA 139
 Group Compression (WangDAT)

MEDIA

Industry-Standard
 4mm Digital Audio
 Tape (DAT) Size
 Height 10mm
 Width 73mm
 Depth 54mm
 Tape Length 60 meters/90 meters

COMMANDS SUPPORTED BY THE MODEL 2600

COPY	RECOVER BUFFERED
ERASE	DATA
INQUIRY	RELEASE UNIT
LOAD/UNLOAD	REQUEST BLOCK
LOCATE	ADDRESS
LOG SELECT	REQUEST SENSE
LOG SENSE	RESERVE UNIT
MODE SELECT	REWIND
MODE SENSE	SEEK BLOCK
PREVENT/ALLOW	SEND DIAGNOSTIC
MEDIA REMOVAL	SPACE
READ	TEST UNIT READY
READ BLOCK LIMITS	VERIFY
READ BUFFER	WRITE
READ POSITION	WRITE BUFFER
READ REVERSE	WRITE FILEMARKS

Model 2600 specifications data based upon 3.2:1 compressible user data. Specifications are subject to change without notice.

WangDAT and Group Compression are trademarks of WangDAT Inc., which is not affiliated with any other company using Wang as part of its name or trademark. DDS is a trademark of Hewlett-Packard/Sony.



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MODEL 3600

5GB DAT THE SECOND GENERATION 3.5"™

FEATURES

- Slim 3.5-inch *DATAclass*™ DAT mechanism.
- Over 5GB capacity with long tape.
- 520KB per second data transfer rate.
- 30-second average data access time.
- Software-transparent Group Compression.™
- DDS™ format read/write capability.
- SCSI-1 or SCSI-2 interface (selectable).
- 5.3MB per second SCSI burst rate.
- 60,000 hour MTBF, single-board design.
- Automatic *Power-Safe*™ tape braking.
- Stac 9703 compression coprocessor.
- "Look-aside" compression implementation prevents data expansion.

The WangDAT™ Model 3600 3.5-inch DAT (Digital Audio Tape) drive delivers the ultimate in tape capacity and performance in the industry's smallest form factor yet. With a capacity of 5 gigabytes and a transfer rate of over 30 megabytes a minute, the Model 3600 is the drive of choice for today's power workstations and small-footprint file servers.

The Model 3600 features hardware data compression, implemented in a *look-aside* mode that guarantees no data expansion. WangDAT's design uses the industry-leading Stac 9703 compression coprocessor, incorporating a variant of the LZ1 algorithm, proven by nearly a million users and able to maintain high compression ratios even for files of a rapidly changing nature.

The Model 3600's *DATAclass* computer DAT mechanism with *vertical hub engagement*, is the latest advancement in load reliability, with direct-drive reel motors for precision tape control, a four-head dynamically balanced drum with read-after-write heads, an independent capstan motor and direct "in-path" closed-loop tension control for reliable recording.

So if you're looking for a big solution in a very small package, try the Model 3600, the best DAT there is.



WangDAT™

DAT'S All We Do.

MODEL

3600

4MM DAT CASSETTE TAPE DRIVE



DRIVE DIMENSIONS

Height	1.625 in. (41.3mm)
Width	4.00 in. (101.6mm)
Depth	5.75 in. (146.1mm)

INTERFACE

Interface Specification	SCSI-1 or SCSI-2 (switch selectable) X3.131-1986/QIC-104 (SCSI-1) X3.131-198X (SCSI-2)
Device Type	Sequential single-ended

PERFORMANCE

	<u>DDS Mode</u>	<u>Compression Mode</u>
Capacity		
60 Meter Tape	1.3GB	3.7GB
90 Meter Tape	2.0GB	5.7GB
Transfer Rate		
Sustained	<u>DDS Mode</u> 183Kbytes/sec.	<u>Compression Mode</u> 520 Kbytes/sec.
Burst (SCSI)	4.0Mbytes/sec. (asynchronous) 5.3Mbytes/sec. (synchronous)	

Tape Speed	
Read/Write	8.15mm/sec.
Average Access Time	20 seconds - 60 meter tape 30 seconds - 90 meter tape
Drum Speed	2000 rpm

Effective Tape Speed	
Speed	3.133m/sec. (123 ips)
Number of Heads	4 (2R and 2W)
Head Azimuth	± 20°
Linear Density	61Kbpi
Track Pitch	13.6 μm
Modulation	8/10 GCR
Reed Solomon ECC	
C1	GF (2 ⁸) (32,28)
C2	GF (2 ⁸) (32,26)
C3	GF (2 ⁸) (46,44)
Record Length	Fixed/variable

RELIABILITY

Error Rate	
Non-Recoverable	<1 in 10 ¹⁵ bits
MTBF	>60,000 hrs. (30% tape motion)
MTTR	<30 min.

POWER

+5 VDC	
Tolerance	± 5%
Operational	1.0 amp nom. 1.3 amp max.

+12 VDC	
Tolerance	± 10%
Standby	0.15 amp nom.
Operational	.5 amp max.

Power Dissipation	
Typical	<7 watts
Maximum	<11 watts

ENVIRONMENTAL

Temperature	
Operational	5 to 45°C (41 to 113°F)
Storage	-30 to +60°C (-22 to +140°F)
Relative Humidity (non-condensing)	20 to 80%

RECORDING FORMAT

Specification(s)	DDS (HP/Sony) X3B5/90-231 ECMA 139 Group Compression (WangDAT)
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MEDIA

Industry-Standard	
4mm Digital Audio	
Tape (DAT) Size	
Height	10mm
Width	73mm
Depth	54mm
Tape Length	60 meters/90 meters

COMMANDS SUPPORTED BY THE MODEL 3600

COPY	RECOVER BUFFERED
ERASE	DATA
INQUIRY	RELEASE UNIT
LOAD/UNLOAD	REQUEST BLOCK
LOCATE	ADDRESS
LOG SELECT	REQUEST SENSE
LOG SENSE	RESERVE UNIT
MODE SELECT	REWIND
MODE SENSE	SEEK BLOCK
PREVENT/ALLOW	SEND DIAGNOSTIC
MEDIA REMOVAL	SPACE
READ	TEST UNIT READY
READ BLOCK LIMITS	VERIFY
READ BUFFER	WRITE
READ POSITION	WRITE BUFFER
READ REVERSE	WRITE FILEMARKS

Model 3600 specifications data based upon 3.2:1 compressible user data. Specifications are subject to change without notice.

WangDAT, the Second Generation 3.5", *DATAclass*, *Power-Safe* and Group Compression are trademarks of WangDAT Inc., which is not affiliated with any other company using Wang as part of its name or trademark. DDS is a trademark of Hewlett-Packard/Sony.



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West Coast Regional Office: 2685 Marine Way, Suite 1220-F, Mountain View, CA 94043, (415) 967-6496, FAX: (415) 967-9534.

Who Offers More?

The 8mm EXB-8200™
2.5-gigabyte capacity
246KB/second

CAPACITY PERFORMANCE RELIABILITY VALUE



The 4mm
WangDAT 2600
3.0-gigabyte
capacity
400KB/second



WangDAT

DAT's Who!

**ONLY WANGDAT™ NOW DELIVERS
A BETTER ALTERNATIVE TO 8MM.**

At WangDAT, we've made your choice simple. WangDAT's new Model 2600 DAT with advanced data compression delivers more for a lot less. Three gigabytes to be exact. And 50 percent more performance than the standard you've learned to live with. The Model 2600 dual-format drive employs WangDAT Group Compression™ format for high-capacity local backup and the industry standard DDS™ format for data interchange.

Plus, WangDAT's half-high form factor puts all this capability into just

COMPARE FOR YOURSELF		
Major Features	WangDAT 2600	8mm (EXB-8200)
Data Capacity	3.0 Gbytes	2.5 Gbytes
Transfer Rate	24 Mbytes/min.	15 Mbytes/min.
Form Factor	Half-High 5.25-in.	Full-High 5.25-in.
File Search Rate	56 Mbytes/sec.	2.46 Mbytes/sec.
Recording Format (s)	DDS (Certified) Group Compression	Sole-Sourced
MTBF Hours	50,000	40,000

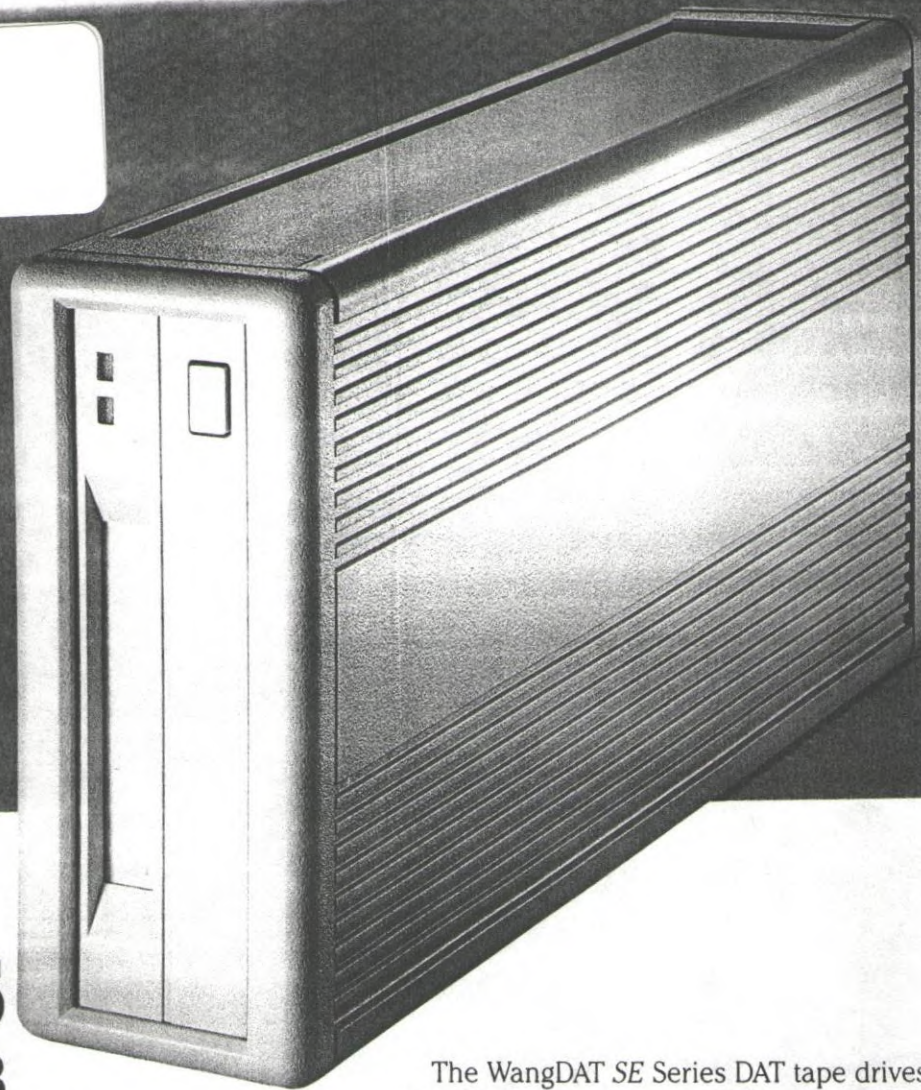
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half the space. And DAT will cost you a whole lot less.

So if you're thinking 8mm, don't. Now, big things do come in small packages. WangDAT.

To learn more about the Model 2600, contact WangDAT, 151 Kalmus Drive, K3, Costa Mesa, California 92626, (714) 241-9613, FAX: (714) 241-9571.

 **WangDAT™**
DAT'S All We Do.



SE SERIES

Up to 5GB

SLIMLINE EXTERNAL DAT

FEATURES

- Three models offered — 1.3GB, 3GB and 5GB
- Free-standing low profile enclosure
- WangDAT *DATAclass*™ DAT mechanism
- Certified DDS format read/write interchange
- Group Data Compression option (selectable)
- 183-520 KB/second data transfer rate
- Fast 20-30 second average file access time
- 5.3MB/sec. SCSI-1/SCSI-2 interface (selectable)
- Compatible with most 1/4", 1/2", 8mm systems
- 50,000 hour MTBF/10,000 hour heads
- Automatic *Power-Safe*™ tape braking

The WangDAT *SE* Series DAT tape drives provide high-end compact storage for PC LANs, workstations, and multi-user systems. There are three *SE* models to choose from, in capacities from 1.3GB to over 5GB, including optional Group Data Compression™. And, with gigabytes of data on a single cassette, WangDAT's fast 20-30 second file search capability is invaluable. Data transfer rates are offered up to 30 megabytes per minute, simplifying even the biggest of backup tasks.

All *SE* models are free-standing drives with a built-in power supply and cooling fan. Their slimline packaging saves valuable space on the desktop, and the sleek appearance of the *SE* enclosure is a natural addition to today's newer systems.

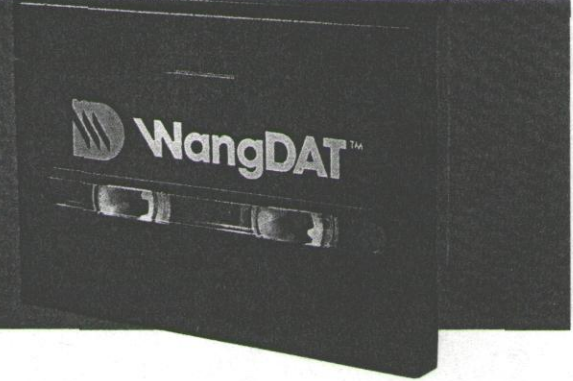
Every *SE* drive incorporates WangDAT's *DATAclass* DAT mechanism, designed from the start for computer applications, and supporting an MTBF of 50,000 hours, for high reliability.

 **WangDAT™**

DAT'S All We Do.

SE SERIES

SLIMLINE EXTERNAL DAT



FEATURES

Models:	5130SE	5260SE	2000SE
Capacity - GBs			
DDS (60m/90m)	1.3/NA	1.3/NA	1.3/2.0
GDC (60m/90m)	-----	3.7/NA	3.7/5.7
Performance - KBS			
DDS/GDC	183/NA	183/520	183/520

DRIVE DIMENSIONS

Height	6.4 in.
Width	2.8 in.
Depth	14.3 in.
Weight	<8 lbs.

INTERFACE

Interface	SCSI-1 or SCSI-2 (selectable)
Specifications	
SCSI-1	X3.131-1986 (QIC-104)
SCSI-2	X3.131-199X
Device Type	Single-Ended
SCSI Burst Rate	4.0 Mbytes/sec. (Asynch) 5.3 Mbytes/sec. (Synch)

Tape Speed	
Read/Write	8.15mm/sec. (.32 ips)
Avg. Access Time	20 seconds—60 meter tape 30 seconds—90 meter tape

Drum Speed	2000 rpm
Effective Tape	
Speed	3.133m/sec. (123 ips)
No. of Heads	4 (2R and 2W)
Head Azimuth	± 20°
Linear Density	61 Kbpi
Track Pitch	13.6 μm
Modulation	8/10 GCR
Reed Solomon ECC	Three level: C1; C2; C3
Record Length	Fixed/Variable

RELIABILITY

Error Rate	
Non-Recoverable	<1 in 10 ¹⁵ bits read
MTBF	50,000 hrs. (30% tape motion)
MTTR	<30 min.

POWER

Voltage	115/230 VAC
Frequency	50/60 Hz
Type of Supply	Auto-ranging
Current	1.5/0.75 Amps

ENVIRONMENTAL

Temperature	
Operational	5 to 45°C (41 to 113°F)
Storage	-30 to +60°C (-22 to 140°F)
Relative Humidity	20 to 80% (Non-Condensing)

RECORDING FORMAT

Specification	
DDS (HP/Sony)	X3.203-199X & ECMA 139
Compression	Group Data Compression (GDC)

MEDIA

4mm DAT Data Cassette	
Tape Length	
5130SE/5260SE:	60 meter
2000SE:	60 meter/90 meter

SCSI COMMANDS SUPPORTED

COPY	RECOVER BUFFERED
ERASE	DATA
INQUIRY	RELEASE UNIT
LOAD/UNLOAD	REQUEST BLOCK
LOCATE	ADDRESS
LOG SELECT	REQUEST SENSE
LOG SENSE	RESERVE UNIT
MODE SELECT	REWIND
MODE SENSE	SEEK BLOCK
PREVENT/ALLOW	SEND DIAGNOSTIC
MEDIA REMOVAL	SPACE
READ	TEST UNIT READY
READ BLOCK LIMITS	VERIFY
READ BUFFER	WRITE
READ POSITION	WRITE BUFFER
READ REVERSE	WRITE FILEMARKS

GDC specifications based upon 3.2:1 compressible user data. Specifications are subject to change without notice.

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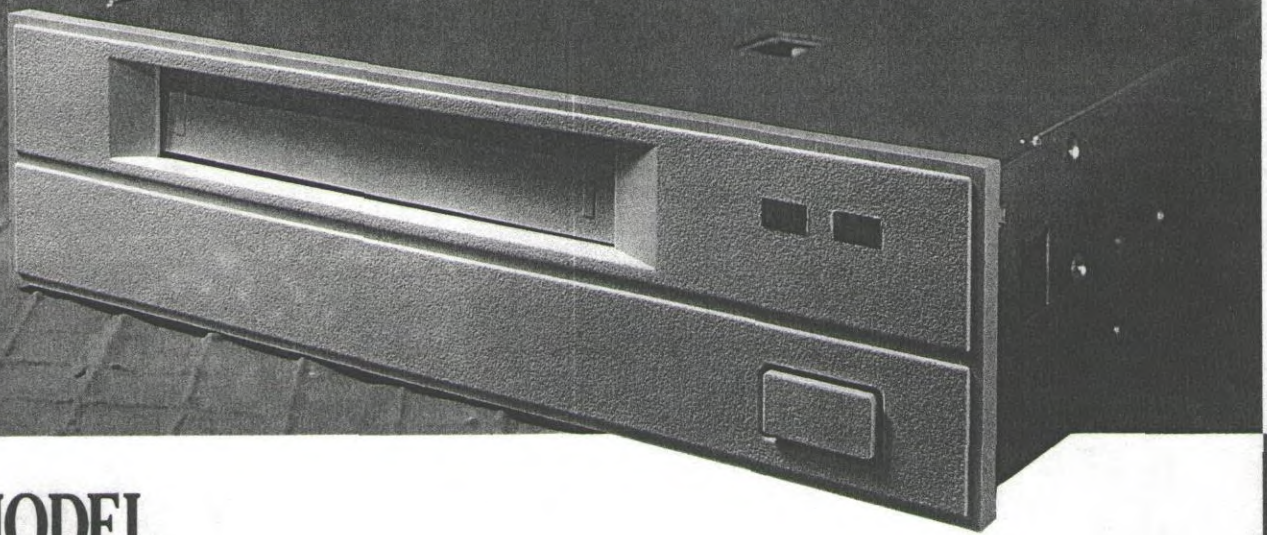


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MODEL 2000

2GB - 5.25" DAT DDS FORMAT *PLUS* COMPRESSION

FEATURES

- 5.25" half-high *DATAclass*[™] DAT mechanism
- 2 GB capacity in DDS format, on 90 meter tape
- 5 GB Group Data Compression (selectable)
- 183-520 KB/second data transfer rate
- Large 768 Kbyte cache data buffer
- Less than 8 watts of power required
- 30 second average data access time
- SCSI-1 or SCSI-2 interface (selectable)
- 5.3MB/second SCSI burst rate
- 50,000 hour drive MTBF
- 10,000 hour long-life heads
- Automatic *Power-Safe*[™] tape braking

The WangDAT Model 2000 5.25-inch half-high DAT (Digital Audio Tape) drive offers leading capacity and performance for the more powerful workstations and local area networks in use today. This new DAT drive provides a capacity of 2 gigabytes in standard DDS format mode, with over 5 gigabytes available in the selectable Group Data Compression mode. File search is accomplished in an average of only 30 seconds, and data transfer rates reach up to 30 megabytes per minute in compression mode.

The Model 2000 employs WangDAT's 5.25-inch *DATAclass*[™] mechanism with direct-drive reel motors for optimum speed control, a four-head drum to support read-after-write, an independent capstan motor, and digitally controlled servo for precise speed and tape tension control. The Model 2000 provides industry leading reliability, supported by an MTBF of 50,000 hours and our long-life 10,000 hour recording heads. In addition, the on-board *Power-Safe*[™] reel braking system ensures gentle tape handling even during system power failures.

 **WangDAT**[™]

DAT'S All We Do.

MODEL

2000

DDS FORMAT PLUS COMPRESSION



DRIVE DIMENSIONS

Height	1.625 in. (4.13cm)
Width	5.75 in. (14.61cm)
Depth	8.00 in. (20.32cm)

INTERFACE

Interface Specification	SCSI-1 or SCSI-2 (switch selectable) X3.131-1986/QIC-104 (SCSI-1) X3.131-199X (SCSI-2)	
Device Type	Sequential single-ended	

PERFORMANCE

	DDS Mode	Compression Mode
Capacity		
60 Meter Tape	1.3GB	3.7GB
90 Meter Tape	2.0GB	5.7GB

	DDS Mode	Compression Mode
Transfer Rate Sustained	183Kbytes/sec.	520 Kbytes/sec.
Burst (SCSI)	4.0Mbytes/sec. (asynchronous) 5.3Mbytes/sec. (synchronous)	

Tape Speed	
Read/Write	8.15mm/sec.
Average Access Time	20 seconds—60 meter tape 30 seconds—90 meter tape
Drum Speed	2000 rpm

Effective Tape Speed	3.133m/sec. (123 ips)
Number of Heads	4 (2R and 2W)
Head Azimuth	± 20°
Linear Density	61 Kbpi
Track Pitch	13.6 μm
Modulation	8/10 GCR
Reed Solomon ECC	
C1	GF (2 ⁸) (32,28)
C2	GF (2 ⁸) (32,26)
C3	GF (2 ⁸) (46,44)
Record Length	Fixed/variable

RELIABILITY

Error Rate	
Non-Recoverable	<1 in 10 ¹⁵ bits
MTBF	50,000 hrs. (30% tape motion)
MTTR	<30 min.

POWER

+5 VDC	
Tolerance	±5%
Operational	1.0 amp nom. 1.3 amp max.

+12VDC	
Tolerance	±10%
Standby	0.15 amp nom.
Operational	.5 amp max.
Power Dissipation	
Typical	<8 watts
Maximum	12 watts

ENVIRONMENTAL

Temperature	
Operational	5 to 45° C (41 to 113° F)
Storage	-30 to +60° C (-22 to +140° F)
Relative Humidity (non-condensing)	20 to 80%

RECORDING FORMAT

Specification(s)	DDS (HP/Sony) X3.203-199X ECMA 139 Group Data Compression (WangDAT)
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MEDIA

Industry-Standard	
4mm Digital Audio Tape (DAT) Size	
Height	10mm
Width	73mm
Depth	54mm
Tape Length	60 meters/90 meters

COMMANDS SUPPORTED BY THE MODEL 2000

COPY	RECOVER BUFFERED
ERASE	DATA
INQUIRY	RELEASE UNIT
LOAD/UNLOAD	REQUEST BLOCK
LOCATE	ADDRESS
LOG SELECT	REQUEST SENSE
LOG SENSE	RESERVE UNIT
MODE SELECT	REWIND
MODE SENSE	SEEK BLOCK
PREVENT/ALLOW	SEND DIAGNOSTIC
MEDIA REMOVAL	SPACE
READ	TEST UNIT READY
READ BLOCK LIMITS	VERIFY
READ BUFFER	WRITE
READ POSITION	WRITE BUFFER
READ REVERSE	WRITE FILEMARKS

Model 2000 specifications data based upon 3.2:1 compressible user data. Specifications are subject to change without notice.

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