

World Class Data Storage

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Seagate Product Family Cross-Reference by Capacity, Form-Factor and Interface

Formatted Capacity (Mbytes)		20-40	41-60	61-80
2.5-inch	AT	ST9096	ST9096	
3.5-inch	XT/AT	ST351	ST351	
Low-Profile	SCSI	ST351		
3.5-inch	AT	ST157	ST157	
	SCSI	ST157	ST157 ST1144	
	ST412/MFM	ST157	ST1144	ST1144
	ST412/RLL	ST157	ST157	
	ESDI			
5.25-inch	AT			Wren 2
Half-Height	SCSI			ST251
	ST412/MFM	ST225	ST251 Wren 2	
	ST412/RLL	ST225	ST225	ST251 Wren 2
	ESDI			
5.25-inch	SCSI			
Full-Height	ST412/MFM			ST4096 Wren 2
	ST412/RLL			
	ESDI			
	IPI			
	SMD			
8-inch	SCSI			
	IPI-2	SSD	SSD	SSD
	SMD			
9-inch	SMD			
	IPI			

81-100 101-200 201-500 501-700 701-1,500 1,501 & up

ST3120 ST3120

ST1144	Swift	Swift
	ST1144	ST1480
ST1144	Swift	Swift
		ST1480
Swift		
	Swift	
Swift	Swift	

		Wren 6
Wren 3	Wren 5	Wren 6
ST251		

Wren 3	Wren 6	Wren 6
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	Wren 3	Wren 4		
		W-Run 1		
			Wren 5 & 6	Wren 7 & 8
			W-Run 2	Elite
	ST4096			
	Wren 2			
	Wren 3	Wren 5	W-Run 2	
			Wren 6	
				Elite
				Elite

SSD	SSD		Sabre	Sabre
			Sabre	Sabre
			Sabre	Sabre

FSD
FSD

How to Read Seagate Model Numbers

S	T	2	5	0	2	N
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Form-Factor

- 1XXX = 3.5-inch half-height (41 mm)
- 2XX = 5.25-inch half-height (41 mm)
- 3XXX = 3.5-inch 1-inch high (25mm)
- 4XXX = 5.25-inch full-height (82 mm)
- 6XXX = 9-inch
- 8XXX = 8-inch
- 9XXX = 2.5-inch

MBytes

Unformatted (approx.),
e.g. ST225 is 25
unformatted MBytes

Interface

- Unspec = ST412/MFM
- N = SCSI
- R = ST412/RLI
- A = AT Bus
- X = XT Bus
- E = ESDI
- J = SMD/SMD-E
- K = IPI-2
- ND = Differential SCSI
- NM = Mac Compatible SCSI
- S = Synchronized Spindle
- V = NetWare Ready
- P = Write Pre-Comp

ST9096 Family Specifications

2.5-inch Form-Factor

Model	ST9025A	ST9051A
Formatted Megabytes (512 Bytes/sector):	21.4	42.8
Sectors per Drive:	41,856	83,712
Interface:	AT	AT
Internal Trans Rate (Mbits/sec):	10.0	10.0
External Trans Rate (Mbytes/sec):	up to 4.0	up to 4.0
Average Seek (msec):	<20	<20
Average Latency (msec):	8.26	8.26
Discs:	1	2
Logical Read/Write Heads (max):	4	6
Logical Cylinders (max):	1,024	1,024
MTBF:	150,000	150,000
+5 VDC \pm 5% (Spin-up Amps max):	1.0	1.0
Power typ (Watts) Active/Idle/Standby:	3.0/1.6/0.5	3.0/1.6/0.5
Height max (inches/mm):	0.75/ 19.05	0.75/ 19.05
Width max (inches/mm):	2.76/70.1	2.76/70.1
Depth max (inches/mm):	4.01/ 101.9	4.01/ 101.9
Weight (oz/kg):	6.4/0.18	6.4/0.18

ST9096 Logical Organization Note:

All head and cylinder geometries supported are subject to the maximums specified and the following product:

(Heads) (Cylinders) (17 Sectors) \leq Total Number of Sectors per Drive Specified

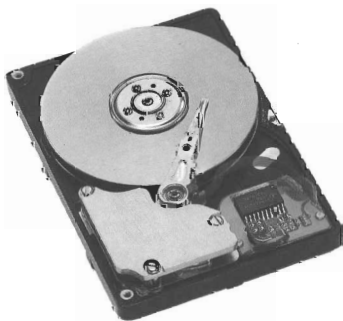
2.5-inch form-factor for portables

Embedded AT controller

150 Gs nonoperating shock

Low power consumption for battery applications

150,000 hours MTBF



ST351 Family Specifications

3.5-inch, Low-Profile Form-Factor

Model	ST325X	ST325N	ST325A/X	ST351A/X
Formatted Megabytes (512 Bytes/sector):	21.4	21.4	21.4	42.8
Interface:	XT	SCSI	AT/XT	AT/XT
Internal Trans Rate (Mbits/sec):	9.2	9.2	up to 14	up to 14
Average Seek (msec):	45	28	28	28
Average Latency (msec):	8.3	8.3	9.84	9.84
Discs:	1	1	1	1
Read/Write Heads:	2	2	2	2
Cylinders:	615	NA	615	820
MTBF:	150,000	150,000	150,000	150,000
+12 VDC \pm 5% Amps typ/max:	0.125/1.0	0.125/1.0	0.10/0.8	0.10/0.8
+5 VDC \pm 5% (Amps typ):	0.10	0.23	0.11	0.11
Power Management Idle/Sleep:	2	2.7	1.8	2.0
Height (inches/mm):	1.20/ 30.5	1.25/ 31.75	1.00/ 25.4	1.00/ 25.4
Width (inches/mm):	4.02/ 102.1	4.02/ 102.1	4.00/ 101.6	4.00/ 101.6
Depth (inches/mm):	5.77/ 146.6	5.77/ 146.6	5.75/ 146.05	5.75/ 146.05
Weight (lbs/kg):	1.2/0.54	1.2/0.54	1.2/0.54	1.2/0.54

**Embedded XT/AT and SCSI
interfaces: selectable on
ST325A/X and ST351A/X**

**Seagate's SeaCache 8/32
Kbyte read-ahead data buffer**

**User-programmable power
management**

Auto-park



ST3120 Family Specifications

3.5-inch, Low-Profile Form-Factor

Model	ST3096A	ST3120A
<i>Unformatted Megabytes:</i>	NA	NA
<i>Formatted Megabytes (512 Bytes/sector):</i>	89.2	106.9
<i>Interface:</i>	AT	AT
<i>Internal Trans Rate (Mbits/sec):</i>	up to 12	up to 12
<i>External Trans Rate (Mbytes/sec):</i>	4	4
<i>Average Seek (msec):</i>	17	18
<i>Average Latency (msec):</i>	8.5	8.5
<i>Discs:</i>	2	2
<i>Read/Write Heads:</i>	3	3
<i>Cylinders:</i>	1,024	1,024
<i>MTBF:</i>	150,000	150,000
<i>+12 VDC ±5% Amps max:</i>	0.9	0.9
<i>Power Management Idle/Sleep (Watts):</i>	2.5/0.6	2.5/0.6
<i>Height (inches/mm):</i>	1.00/25.4	1.00/25.4
<i>Width (inches/mm):</i>	4.02/ 102.1	4.02/ 102.1
<i>Depth (inches/mm):</i>	5.77/ 146.6	5.77/ 146.6
<i>Weight (lbs/kg):</i>	1.3/0.59	1.31/0.59

**Computer simulated SeaCache
algorithm**

**Advanced dedicated servo
design with thermal
compensation**

**Patented straight arm actuator
with patented magnetic lock**



ST157 Family Specifications

3.5-inch, Half-Height Form-Factor

Model	ST124	ST125	ST125A	ST125N
Unformatted Megabytes:	25.6	25.6	NA	NA
Formatted Megabytes (512 Bytes/sector):	21.4	21.4	21.5	21.5
Interface:	ST412	ST412	AT	SCSI
Recording Method:	MFM	MFM	RLL (2,7)	RLL (2,7)
Internal Trans Rate (Mbits/sec):	5.0	5.0	7.5	7.5
External Trans Rate (Mbytes/sec):	0.625	0.625	up to 4.0	up to 1.5
Average Seek (msec):	40	28	28	28
Average Latency (msec):	8.3	8.3	8.3	8.3
Discs:	2	2	2	2
Read/Write Heads:	4	4	4	4
Cylinders:	615	615	NA	NA
MTBF:	150,000	150,000	150,000	150,000
+12 VDC \pm 5% Amps typ/max:	0.35/2.2	0.35/2.0	0.35/2.0	0.35/2.0
+5 VDC \pm 5% (Amps typ):	0.8	0.8	0.9	0.9
Power (Idle Watts):	8	8	9	9
Height (inches/mm):	1.63/41.4	1.63/41.4	1.63/41.4	1.63/41.4
Width (inches/mm):	4.00/ 101.6	4.00/ 101.6	4.00/ 101.6	4.00/ 101.6
Depth (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Weight (lbs/kg):	1.6/0.73	1.6/0.73	1.6/0.73	1.6/0.73

ST138	ST138R	ST138A	ST138N
38.4	38.4	NA	NA
32.1	32.7	32.1	32.2
ST412	ST412	AT	SCSI
MFM	RLL (2,7)	RLL (2,7)	RLL (2,7)
5.0	7.5	7.5	7.5
0.625	0.937	up to 4.0	up to 1.5
28	28	28	28
8.3	8.3	8.3	8.3
3	2	2	2
6	4	4	4
615	615	NA	NA
150,000	150,000	150,000	150,000
0.35/2.0	0.35/2.0	0.35/2.0	0.35/2.0
0.8	0.8	0.9	0.9
8	8	9	9
1.63/41.4	1.63/41.4	1.63/41.4	1.63/41.4
4.00/ 101.6	4.00/ 101.6	4.00/ 101.6	4.00/ 101.6
5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
1.6/0.73	1.6/0.73	1.6/0.73	1.6/0.73

**Industry standard ST412, AT
and SCSI interfaces**

150,000 hours MTBF

Seagate's thin-film media

Average seek times to 28 msec

**Auto-park on ST125 through
ST157N**



ST157 Family Specifications

3.5-inch, Half-Height Form-Factor

Model	ST157R	ST157A	ST157N
Unformatted Megabytes:	57.7	NA	NA
Formatted Megabytes (512 Bytes/sector):	49.1	44.7	48.6
Interface:	ST412	AT	SCSI
Recording Method:	RLL (2,7)	RLL (2,7)	RLL (2,7)
Internal Trans Rate (Mbits/sec):	7.5	7.5	7.5
External Trans Rate (Mbytes/sec):	0.937	up to 4.0	up to 1.5
Average Seek (msec):	28	28	28
Average Latency (msec):	8.3	8.3	8.3
Discs:	3	3	3
Read/Write Heads:	6	6	6
Cylinders:	615	NA	NA
MTBF:	150,000	150,000	150,000
+12 VDC \pm 5% Amps typ/max:	0.35/2.0	0.35/2.0	0.35/2.0
+5 VDC \pm 5% (Amps typ):	0.8	0.9	0.9
Power (Idle Watts):	8	9	9
Height (inches/mm):	1.63/41.4	1.63/41.4	1.63/41.4
Width (inches/mm):	4.00/ 101.6	4.00/ 101.6	4.00/ 101.6
Depth (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Weight (lbs/kg):	1.6/0.73	1.6/0.73	1.6/0.73

**Industry-standard ST412, AT
and SCSI interfaces**

150,000 hours MTBF

Seagate's thin-film media

Average seek times to 28 msec

**Auto-park on ST125 through
ST157N**



ST1144 Family Specifications

3.5-inch, Half-Height Form-Factor

Model	ST151	ST177N
Unformatted Megabytes:	50.8	NA
Formatted Megabytes (512 Bytes/sector):	42.5	60.8
Interface:	ST412	SCSI
Internal Trans Rate (Mbits/sec):	5.0	7.5
External Trans Rate (Mbytes/sec):	0.625	1.5
Average Seek (msec):	24	20
Average Latency (msec):	8.33	8.33
Discs:	3	3
Read/Write Heads:	5	5
Cylinders:	977	NA
MTBF:	150,000	150,000
+12 VDC \pm 5% Amps typ/max:	0.45/2.0	0.5/2.0
+5 VDC \pm 5% (Amps typ):	0.5	0.6
Power (Idle Watts):	8	9
Height (inches/mm):	1.63/41.4	1.63/41.4
Width (inches/mm):	4.02/ 101.6	4.02/ 101.6
Depth (inches/mm):	5.77/ 146.6	5.77/ 146.6
Weight (lbs/kg):	1.7/0.77	1.7/0.77

**Industry-standard ST412, SCSI
or AT interfaces available**

**42 to 130 Mbytes formatted
capacity**

**19 to 24 msec average seek
time**

**Seagate's SeaCache 8/32
Kbyte read-ahead data buffer**



ST1144 Family Specifications

3.5-inch, Half-Height Form-Factor

Model	ST1096N	ST1102A	ST1144A
Unformatted Megabytes:	NA	NA	NA
Formatted Megabytes (512 Bytes/sector):	83.9	89.1	130.7
Interface:	SCSI	AT	AT
Internal Trans Rate (Mbits/sec):	7.5	up to 12	up to 12
External Trans Rate (Mbytes/sec):	1.5	4	4
Average Seek (msec):	20	19	19
Average Latency (msec):	8.33	8.5	8.5
Discs:	4	3	4
Read/Write Heads:	7	5	7
Cylinders:	NA	NA	NA
MTBF:	150,000	150,000	150,000
+12 VDC $\pm 5\%$ Amps typ/max:	0.5/2.0	0.5/2.0	0.5/2.0
+5 VDC $\pm 5\%$ (Amps typ):	0.6	0.6	0.6
Power (Idle Watts):	9	9	9
Height (inches/mm):	1.63/41.4	1.63/41.4	1.63/41.4
Width (inches/mm):	4.02/ 101.6	4.02/ 101.6	4.02/ 101.6
Depth (inches/mm):	5.77/ 146.6	5.77/ 146.6	5.77/ 146.6
Weight (lbs/kg):	1.7/0.77	1.7/0.77	1.7/0.77



Swift Family Specifications

3.5-inch, Half-Height Form-Factor

Model	ST1100	ST1111E	ST1126N	ST1126A
Unformatted Megabytes:	100.5	111.9	NA	NA
Formatted Megabytes (512 Bytes/sector):	83.9	98.8	107.0	111.4
Interface:	ST412	ESDI	SCSI	AT
Internal Trans Rate (Mbits/sec):	5.0	10.0	8.0	8.0
External Trans Rate (Mbytes/sec):	0.625	1.25	1.25	4.0
Average Seek (msec):	15	15	15	15
Average Latency (msec):	8.33	8.33	8.33	8.33
Discs:	5	3	4	4
Read/Write Heads:	9	5	7	7
Cylinders:	1,072	1,072	NA	NA
MTBF:	150,000	150,000	150,000	150,000
+12 VDC \pm 5% Amps typ/max:	0.7/2.5	0.7/2.5	0.7/2.5	0.7/2.5
+5 VDC \pm 5% (Amps typ):	0.4	0.55	0.67	0.55
Power (Idle Watts):	9	11	11	11
Height (inches/mm):	1.625/ 41.3	1.626/ 41.3	1.626/ 41.3	1.626/ 41.3
Width (inches/mm):	4.00/ 101.6	4.00/ 101.6	4.00/ 101.6	4.00/ 101.6
Depth (inches/mm):	5.75/ 146.6	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Weight (lbs/kg):	2.0/0.91	2.0/0.91	2.0/0.91	2.0/0.91

ST9096 Logical Organization Note:

All head and cylinder geometries supported are subject to the maximums specified and the following product:

(Heads) (Cylinders) (17 Sectors) \leq Total Number of Sectors per Drive Specified

**Formatted capacities from 80
to 200 Mbytes**

**Industry-standard ST412, ESDI,
AT and SCSI interfaces**

15 msec average seek

150,000 hours MTBF



Swift Family Specifications

3.5-inch, Half-Height Form-Factor

Model	ST1133N	ST1150R	ST1162N
Unformatted Megabytes:	NA	150.7	NA
Formatted Megabytes (512 Bytes/sector):	113.4	128.4	137.5
Interface:	SCSI	ST412	SCSI
Internal Trans Rate (Mbits/sec):	10.0	7.5	8.0
External Trans Rate (Mbytes/sec):	3.0/5.0	0.937	1.25
Average Seek (msec):	15	15	15
Average Latency (msec):	8.33	8.33	8.33
Discs:	3	5	5
Read/Write Heads:	5	9	9
Cylinders:	NA	1,072	NA
MTBF:	150,000	150,000	150,000
+12 VDC \pm 5% Amps typ/max:	0.7/2.5	0.7/2.5	0.7/2.5
+5 VDC \pm 5% (Amps typ):	0.67	0.4	0.67
Power (Idle Watts):	11	9	11
Height (inches/mm):	1.625/ 41.3	1.625/ 41.3	1.625/ 41.3
Width (inches/mm):	4.00/ 101.6	4.00/ 101.6	4.00/ 101.6
Depth (inches/mm):	5.75/ 146.1	5.75/ 146.	5.75/ 146.1
Weight (lbs/kg):	2.0/0.91	2.0/0.91	2.0/0.91

ST1162A	ST1186A	ST1186N	ST1201N
NA	NA	NA	NA
143.0	163.8	158.8	171.9
AT	AT	SCSI	SCSI
8.0	10.0	10.0	10.0
4.0	4.0	3.5/5.0	3.0 Async/ 5.0 Sync
15	15	15	15
8.33	8.33	8.33	8.33
5	4	4	5
9	7	7	9
NA	NA	NA	NA
150,000	150,000	150,000	150,000
0.7/2.5	0.7/2.5	0.7/2.5	0.7/2.5
0.55	0.55	0.67	0.67
11	11	11	11
1.625/ 41.3	1.625/ 41.3	1.625/ 41.3	1.625/ 41.3
4.00/ 101.6	4.00/ 101.6	4.00/ 101.6	4.00/ 101.6
5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
2.0/0.91	2.0/0.91	2.0/0.91	2.0/0.91

**SeaCache read look-ahead
buffer on AT and SCSI interface
drives**

Dedicated servo

Auto-park on power down

**Straight-arm rotary voice-coil
actuator**



Swift Family Specifications

3.5-inch, Half-Height Form-Factor

Model	ST1201A	ST1201E	ST1239N	ST1239A
Unformatted Megabytes:	NA	201.4	NA	NA
Formatted Megabytes (512 Bytes/sector):	177.5	177.8	204.2	210.7
Interface:	AT	ESDI	SCSI	AT
Internal Trans Rate (Mbits/sec):	10.0	10.0	10.0	10.0
External Trans Rate (Mbytes/sec):	4.0	1.25	3.0 Async 5.0 Sync	4.0
Average Seek (msec):	15	15	15	15
Average Latency (msec):	8.33	8.33	8.33	8.33
Discs:	5	5	5	5
Read/Write Heads:	9	9	9	9
Cylinders:	NA	1,072	NA	NA
MTBF:	150,000	150,000	150,000	150,000
+12 VDC \pm 5% Amps typ/max:	0.7/2.5	0.7/2.5	0.7/2.5	0.7/2.5
+5 VDC \pm 5% (Amps typ):	0.55	0.55	0.67	0.55
Power (Idle Watts):	11	11	11	11
Height (inches/mm):	1.625/ 41.3	1.625/ 41.3	1.625/ 41.3	1.625/ 41.3
Width (inches/mm):	4.00/ 101.6	4.00/ 101.6	4.00/ 101.6	4.00/ 101.6
Depth (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Weight (lbs/kg):	2.0/0.91	2.0/0.91	2.0/0.91	2.0/0.91



ST1480 Family Specifications

3.5-inch Form-Factor

Model	ST1400N	ST1401N	ST1480N	ST1480A
Unformatted Megabytes:	384	400	493	493
Formatted Megabytes (512 Bytes/sector):	331	340	426	426
Interface:	SCSI-2	SCSI-2	SCSI-2	AT
Internal Trans Rate (Mbits/sec):	17 to 25	20 to 25	17 to 25	17 to 25
External Trans Rate (Mbytes/sec):	5 Sync/ 3 Async	5 Sync/ 3 Async	5 Sync/ 3 Async	8
Average Seek (msec):	14	12	14	14
Average Latency (msec):	6.8	6.8	6.8	6.8
Discs:	4	5	5	5
Read/Write Heads:	7	9	9	9
Cylinders:	1,478	1,100	1,478	1,478
Recording Method:	ZBR	ZBR	ZBR	ZBR
MTBF:	150,000	150,000	150,000	150,000
+12 VDC \pm 5% Amps typ/max:	0.7/2.5	0.7/2.5	0.7/2.5	0.7/2.5
+5 VDC \pm 5% (Amps typ):	0.7	0.7	0.7	0.54
Power (Idle Watts):	9.1	9.1	9.1	8.0
Height (inches/mm):	1.832/ 41.5	1.832/ 41.5	1.832/ 41.5	1.832/ 41.5
Width (inches/mm):	4.01/ 101.9	4.01/ 101.9	4.01/ 101.9	4.01/ 101.9
Depth (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Weight (lbs/kg):	1.5/.70	1.5/.70	1.5/.70	1.5/.70

150,000 hour MTBF

**4,400 RPM spindle with
average latency of 6.8 msec**

**Formatted capacity to 426
Mbytes**

**High performance SCSI-2 and
embedded AT interface**



ST225 Family Specifications

5.25-inch, Half-Height Form-Factor

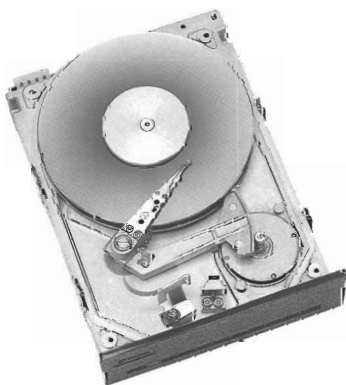
Model	ST225	ST225R	ST238R	ST250R
Unformatted Megabytes:	25.6	25.0	38.4	50.0
Formatted Megabytes (512 Bytes/sector):	21.4	21.17	32.7	42.3
Interface:	ST412	ST412	ST412	ST412
Recording Method:	MFM	RLL (2,7)	RLL (2,7)	RLL (2,7)
Internal Trans Rate (Mbits/sec):	5.0	7.5	7.5	7.5
External Trans Rate (Mbytes/sec):	0.625	0.937	0.937	0.937
Average Seek (msec):	65	70	65	70
Average Latency (msec):	8.3	10	8.3	10
Discs:	2	1	2	2
Read/Write Heads:	4	2	4	4
Cylinders:	615	667	615	667
MTBF:	100,000	100,000	100,000	100,000
+12 VDC \pm 5% Amps typ/max:	0.9/2.4	0.9/2.4	0.9/2.4	0.9/2.4
+5 VDC \pm 5% (Amps typ):	0.8	0.8	0.8	0.8
Power (Idle Watts):	14.8	14.8	14.8	14.8
Height (inches/mm):	1.63/41.4	1.63/41.4	1.63/41.4	1.63/41.4
Width (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Depth (inches/mm):	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
Weight (lbs/kg):	2.75/1.25	2.75/1.25	2.75/1.25	2.75/1.25

**Industry-leading economy,
versatility and reliability**

**Industry-standard ST412
interface**

100,000 hours MTBF

**Supported by Seagate's ST412
interface controllers**



ST251 Family Specifications

5.25-inch, Half-Height Form-Factor

Model	ST252	ST251	ST278R
Unformatted Megabytes:	51.2	51.2	76.9
Formatted Megabytes (512 Bytes/sector):	42.8	42.8	65.5
Interface:	ST412	ST412	ST412
Recording Method:	MFM	MFM	RLL (2,7)
Internal Trans Rate (Mbits/sec):	5.0	5.0	7.5
External Trans Rate (Mbytes/sec):	0.625	0.625	0.937
Average Seek (msec):	40	28	40
Average Latency (msec):	8.3	8.3	8.3
Discs:	3	3	3
Read/Write Heads:	6	6	6
Cylinders:	820	820	820
MTBF:	100,000	100,000	70,000
+12 VDC \pm 5% Amps typ/max:	0.45/2.0	0.5/2.5	0.45/2.0
+5 VDC \pm 5% (Amps typ):	0.85	1.2	0.85
Power (Idle Watts):	9.7	12	9.7
Height (inches/mm):	1.63/41.4	1.63/41.4	1.63/41.4
Width (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Depth (inches/mm):	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
Weight (lbs/kg):	2.75/1.25	2.75/1.25	2.75/1.25

**Industry-standard ST412
interface**

**Ideal price/performance match
for PC XT/AT applications**

Auto-park

**Supported by Seagate's ST412
controllers**



ST251 Family Specifications

5.25-inch, Half-Height Form-Factor

Model	ST277R	ST277N	ST296N
Unformatted Megabytes:	76.9	NA	NA
Formatted Megabytes (512 Bytes/sector):	65.5	64.9	84.9
Interface:	ST412	SCSI	SCSI
Recording Method:	RLL (2,7)	RLL (2,7)	RLL (2,7)
Internal Trans Rate (Mbits/sec):	7.5	10	10
External Trans Rate (Mbytes/sec):	0.937	up to 1.5	up to 1.5
Average Seek (msec):	28	28	28
Average Latency (msec):	8.3	8.3	8.3
Discs:	3	3	3
Read/Write Heads:	6	6	6
Cylinders:	820	NA	NA
MTBF:	70,000	70,000	70,000
+12 VDC \pm 5%			
Amps typ/max:	0.5/2.5	0.5/2.5	0.5/2.5
+5 VDC \pm 5% (Amps typ):	1.2	1.3	1.3
Power (Idle Watts):	12	13	13
Height (inches/mm):	1.63/41.4	1.63/41.4	1.63/41.4
Width (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Depth (inches/mm):	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
Weight (lbs/kg):	2.75/1.25	2.75/1.25	2.75/1.25

**Industry-standard ST412 and
SCSI interfaces**

**Ideal price/performance match
for PC XT/AT applications**

Auto-park

**Supported by Seagate's ST412
controllers and SCSI host
adapters**



Wren Family Specifications

5.25-inch, Half-Height Form-Factor

Model	ST253 <i>Wren-2</i>	ST274A <i>Wren-2</i>	ST279R <i>Wren-2</i>	ST280A <i>Wren-2</i>
Unformatted Megabytes:	51.5	74.5	77	80.6
Formatted Megabytes* (512 Bytes/sector):	43	65.5	65	71.3
Interface:	ST412	AT	ST412	AT
Internal Trans Rate (Mbits/sec):	5.0	7.5	7.5	7.5
External Trans Rate (Mbytes/sec):	0.625	0.937	0.937	0.937
Average Seek (msec):	28.0	29.0	28.0	29.0
Average Latency (msec):	8.33	8.33	8.33	8.33
Discs:	3	3	3	3
Read/Write Heads:	5	5	5	5
Cylinders:	989	948	989	1,032
Recording Method:	MFM	RLL	RLL	RLL
MTBF:	40,000	40,000	40,000	40,000
+12 VDC \pm 5%				
Amps typ/max:	1.5/4.5	1.5/4.5	1.5/4.5	1.5/4.5
+5 VDC \pm 5% (Amps typ):	0.4	0.4	0.4	0.4
Power (Idle Watts):	18	20	18	20
Height (inches/mm):	1.62/ 41.28	1.62/ 41.28	1.62/ 41.28	1.62/ 41.28
Width (inches/mm):	5.75/ 146.05	5.75/ 146.05	5.75/ 146.05	5.75/ 146.05
Depth (inches/mm):	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
Weight (lbs/kg):	4.21/1.9	4.21/1.9	4.21/1.9	4.21/1.9

* Sparing is user optional

**Dedicated read/write head
landing zone with auto-park**

**High performance 28 msec
average seek time**

**ST412 MFM/RLL and
embedded AT interface
available**



Wren Family Specifications

5.25-inch, Half-Height Form-Factor

Model	ST2106E Wren-3	ST2106N ST2106NM Wren-3	ST2125N ST2125NM ST2125NV Wren-5
Unformatted Megabytes:	106	106	125
Formatted Megabytes* (512 Bytes/sector):	94	94	107
Interface:	ESDI	SCSI	SCSI
Internal Trans Rate (Mbits/sec):	10	10	9 to 15
External Trans Rate (Mbytes/sec):	1.25	1.25	4.75 Sync
Average Seek (msec):	18	18	18
Average Latency (msec):	8.33	8.33	8.33
Discs:	3	3	2
Read/Write Heads:	5	5	3
Cylinders:	1,024	1,024	1,544
Recording Method:	RLL (2,7)	RLL (2,7)	ZBR
MTBF:	100,000	100,000	100,000
+12 VDC $\pm 5\%$ Amps typ/max:	1.4/4.5	1.4/4.5	0.9/4.5
+5 VDC $\pm 5\%$ (Amps typ):	1.0	1.0	1.0
Power (Idle Watts):	20	20	16
Height (inches/mm):	1.625/ 41.28	1.625/ 41.28	1.625/ 41.28
Width (inches/mm):	5.75/ 146.05	5.75/ 146.05	5.75/ 146.05
Depth (inches/mm):	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
Weight (lbs/kg):	4.2/1.9	4.2/1.9	4.2/1.9

* Sparing is user optional

ST2209N
ST2209NM

ST2209NV **ST2182E** **ST2274A** **ST2383A**
Wren-5 Wren-6 Wren-6 Wren-6

209 182 274 383

183 160 241 338

SCSI ESDI AT AT

9 to 15 15 15 15

4.7 Sync 1.875 1.875 1.875

18 16 16 16

8.33 8.33 8.33 8.33

3 3 3 4

5 4 5 7

1,544 1,453 1,747 1,747

ZBR RLL (2,7) RLL (2,7) RLL (2,7)

100,000 100,000 100,000 100,000

0.9/4.5 0.9/4.5 0.95/4.5 0.85/4.5

1.0 0.8 0.75 0.75

16 15 15 16

1.625/ 1.625/ 1.625/ 1.625/

41.28 41.28 41.28 41.28

5.75/ 5.75/ 5.75/ 5.75

146.05 146.05 146.05 146.05

8.00/ 8.00/ 8.00/ 8.00/

203.2 203.2 203.2 203.2

4.2/1.9 4.2/1.9 4.2/1.9 4.2/1.9

**ESDI, SCSI, Mac SCSI,
embedded AT interface and
Novell NetWare Ready models
available**

**Lifetime 100% environmental
control system**

Up to 100,000 hour MTBF



Wren Family Specifications

5.25-inch, Half-Height Form-Factor

Model	ST2383E Wren-6	ST2383N ST2383NM Wren-6	ST2502N ST2502NM ST2502NV Wren-6
Unformatted Megabytes:	383	383	502
Formatted Megabytes* (512 Bytes/sector):	338	337	442
Interface:	ESDI	SCSI	SCSI
Internal Trans Rate (Mbits/sec):	15	18 to 22	15 to 22
External Trans Rate (Mbytes/sec):	1.875	4.7 Sync	4.7 Sync
Average Seek (msec):	16	14	16
Average Latency (msec):	8.33	8.33	8.33
Discs:	4	4	4
Read/Write Heads:	7	7	7
Cylinders:	1,747	1,261	1,756
Recording Method:	RLL (2,7)	ZBR	ZBR
MTBF:	100,000	100,000	100,000
+12 VDC \pm 5% Amps typ/max:	0.85/4.5	0.85/4.0	0.85/4.0
+5 VDC \pm 5% (Amps typ):	0.75	0.75	0.75
Power (Idle Watts):	15	16	16
Height (inches/mm):	1.625/ 41.28	1.625/ 41.28	1.625/ 41.28
Width (inches/mm):	5.75/ 146.05	5.75/ 146.05	5.75/ 146.05
Depth (inches/mm):	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
Weight (lbs/kg):	4.2/1.9	4.2/1.9	4.2/1.9

* Sparing is user optional

Low power consumption

**Formatted capacity to 442
Mbytes**

**ESDI, SCSI, Mac SCSI,
embedded AT interface and
Novell NetWare Ready models
available**



ST4096 Family Specifications

5.25-inch, Full-Height Form-Factor

Model	ST4096	ST4144R
Unformatted Megabytes:	96.0	144.0
Formatted Megabytes (512 Bytes/sector):	80.2	122.7
Interface:	ST412	ST412
Recording Method:	MFM	RLL (2,7)
Internal Trans Rate (Mbits/sec):	5.0	7.5
External Trans Rate (Mbytes/sec):	0.625	0.937
Average Seek (msec):	28	28
Average Latency (msec):	8.3	8.3
Discs:	5	5
Read/Write Heads:	9	9
Cylinders:	1,024	1,024
MTBF:	40,000	40,000
+12 VDC $\pm 5\%$ Amps typ/max:	1.3/4.0	1.3/4.0
+5 VDC $\pm 5\%$ (Amps typ):	1.3	1.3
Power (Idle Watts):	23	23
Height (inches/mm):	3.25/82.6	3.25/85.6
Width (inches/mm):	5.75/ 146.1	5.75/ 146.1
Depth (inches/mm):	8.00/ 203.2	8.00/ 203.2
Weight (lbs/kg):	6.5/2.95	6.5/2.95

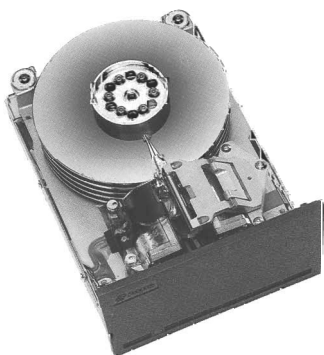
**Industry-standard ST412
interface**

**Closed-loop linear voice-coil
actuator**

28 msec average seek time

Seagate's thin-film media

Auto-park



Wren Family Specifications

5.25-inch, Full-Height Form-Factor

Model	ST4085 Wren-2	ST4086 Wren-2	ST4097 Wren-2	ST4135R Wren-2
Unformatted Megabytes:	85	86	96	135
Formatted Megabytes* (512 Bytes/sector):	71	72	80	115
Interface:	ST412	ST412	ST412	ST412
Internal Trans Rate (Mbits/sec):	5.0	5.0	5.0	7.5
External Trans Rate (Mbytes/sec):	0.625	0.625	0.625	0.937
Average Seek (msec):	28.0	28.0	28.0	28.0
Average Latency (msec):	8.33	8.33	8.33	8.33
Discs:	5	5	5	5
Read/Write Heads:	8	9	9	9
Cylinders:	1,024	925	1,024	960
Recording Method:	MFM	MFM	MFM	RLL (2,7)
MTBF:	40,000	40,000	40,000	40,000
+12 VDC $\pm 5\%$ Amps typ/max:	2.0/4.5	2.0/4.5	2.0/4.5	2.0/4.5
+5 VDC $\pm 5\%$ (Amps typ):	0.75	0.75	0.75	0.75
Power (Idle Watts):	28	28	28	28
Height (inches/mm):	3.25/ 82.55	3.25/ 82.55	3.25/ 82.55	3.25/ 82.45
Width (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Depth (inches/mm):	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
Weight (lbs/kg):	7.6/3.4	7.6/3.4	7.6/3.4	7.6/3.4

* Sparing is user optional

ST4182N		ST4350N	ST4376N
ST4182NM	ST4182E	ST4350NM	ST4376NM
Wren-3	Wren-3	Wren-4	Wren-4
182	182	350	376
155	160	307	330
SCSI	ESDI	SCSI	SCSI
10	10	10 to 15	9 to 15
1.25	1.25	1.5	4.7 Sync
16.5	16.5	16.5	17.5
8.33	8.33	8.33	8.33
5	5	5	5
9	9	9	9
969	969	1,412	1,549
RLL (2,7)	RLL (2,7)	ZBR	ZBR
100,000	100,000	100,000	100,000
1.6/4.5	1.6/4.5	1.5/4.5	1.4/4.5
0.7	0.7	1.1	1.1
21	21	27	27
3.25/ 82.55	3.25/ 82.55	3.25/ 82.55	3.25/ 82.55
5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
8.00/ 203.2	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
7.6/3.4	7.6/3.4	7.6/3.4	7.6/3.4

Formatted capacity from 71 to 330 Mbytes

ST412, ESDI, SCSI, Mac SCSI, and Novell Ready models available

Balanced, low-mass straight arm rotary voice coil actuator



Wren Family Specifications

5.25-inch, Full-Height Form-Factor

Model	ST4383E Wren-5	ST4384E Wren-5	ST4442E Wren-5	ST4702N ST4702NM Wren-5
Unformatted Megabytes:	383	383	442	702
Formatted Megabytes * (512 Bytes/sector):	338	338	380	613
Interface:	ESDI	ESDI	ESDI	SCSI
Internal Trans Rate (Mbits/sec):	10	10	10	12 to 16
External Trans Rate (Mbytes/sec):	1.25	1.25	1.25	4.7 Sync
Average Seek (msec):	18	14.5	16	16.5
Average Latency (msec):	8.33	8.33	8.33	8.33
Discs:	7	8	8	8
Read/Write Heads:	13	15	15	15
Cylinders:	1,412	1,224	1,412	1,546
Recording Method:	RLL (2,7)	RLL (2,7)	RLL (2,7)	ZBR
MTBF:	100,000	100,000	100,000	100,000
+12 VDC ±5% Amps typ/max:	1.7/4.5	1.7/4.5	1.7/4.5	1.6/4.5
+5 VDC ±5% (Amps typ):	0.7	0.8	0.8	0.7
Power (Idle Watts):	21	21	21	21
Height (inches/mm):	3.25/ 82.55	3.25/ 82.55	3.25/ 82.55	3.25/ 82.55
Width (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Depth (inches/mm):	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
Weight (lbs/kg):	7.6/3.4	7.6/3.4	7.6/3.4	7.6/3.4

* Sparring is user optional

ST4385N	ST4767N			ST4766N
ST4385NM	ST4767NM			ST4766NM
ST4385NV	ST4767NV	ST4767E	ST4769E	ST4766NV
<i>W-Runner 1</i>	<i>W-Runner 2</i>	<i>W-Runner 2</i>	<i>W-Runner 2</i>	<i>Wren-6</i>
385	767	788	802	766
337	676	676	691	676
SCSI	SCSI-2	ESDI	ESDI	SCSI
15 to 16	24	24	22	15
4.7 Sync	4.8 Sync	3	2.75	4.7 Sync
10.7	11.9	12.9	14.4	15.5
8.33	6.25	6.25	6.25	8.33
8	8	8	8	8
15	15	15	15	15
NA	1,356	1,399	1,552	1,632
ZBR	ZBR	RLL (2,7)	RLL (2,7)	RLL (2,7)
100,000	150,000	150,000	150,000	150,000
1.6/4.5	1.8/4.5	2.0/4.5	2.0/4.5	1.5/4.5
0.7	0.8	0.8	0.8	0.6
21	27	27	27	21
3.25/ 82.55	3.25/ 82.55	3.25/ 82.55	3.25/ 82.55	3.25/ 82.55
5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
8.00/ 203.2	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
7.6/3.4	7.6/3.4	7.6/3.4	7.6/3.4	7.6/3.4

**Average seek times as fast as
10.7 msec**

**NV models Novell Level 2
NetWare Ready**

**Differential SCSI and
synchronous spindle available**

**ESDI, SCSI, SCSI-2, and Mac
SCSI interface available**



Wren Family Specifications

5.25-inch, Full-Height Form-Factor

Model	ST4766E	ST41200N	ST41650N
	<i>Wren-6</i>	<i>Wren-7</i>	<i>Wren-8</i>
Unformatted Megabytes:	766	1,200	1,650
Formatted Megabytes* (512 Bytes/sector):	676	1,050	1,420
Interface:	ESDI	SCSI	SCSI-2
Internal Trans Rate (Mbits/sec):	15	15 to 23	17 to 32
External Trans Rate (Mbytes/sec):	1,875	4.8 Sync	5.0 Sync
Average Seek (msec):	15.5	15	15
Average Latency (msec):	8.33	8.33	8.33
Discs:	8	8	8
Read/Write Heads:	15	15	15
Cylinders:	1,632	1,931	2,110
Recording Method:	RLL (2,7)	ZBR	ZBR
MTBF:	150,000	150,000	150,000
+12 VDC ±5% Amps typ/max:	1.6/4.5	1.7/4.5	1.8/4.5
+5 VDC ±5% (Amps typ):	0.7	0.8	0.9
Power (Idle Watts):	20	24	26
Height (inches/mm):	3.25/ 82.55	3.25/ 82.55	3.25/ 82.55
Width (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Depth (inches/mm):	8.00/ 203.2	8.00/ 203.2	8.00/ 203.2
Weight (lbs/kg):	7.6/3.4	7.6/3.4	7.6/3.4

* Sparing is user optional

**256 Kbyte cache buffer on
Wren 7 and Wren 8**

150,000 hour MTBF

**Formatted capacity from 676 to
1,420 Mbytes**

**Differential SCSI and
synchronous spindle available**



Elite Family Specifications

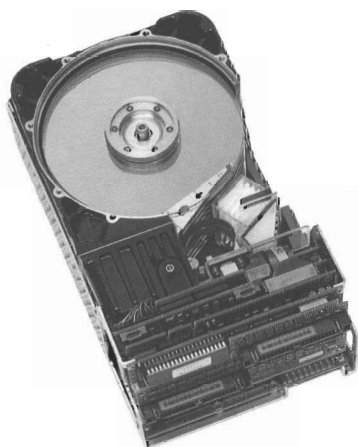
5.25-inch Form-Factor

Model	ST41201J Elite-1	ST41201K Elite-1
Unformatted Megabytes:	1,200	1,200
Formatted Megabytes (512 Bytes/sector):	NA	NA
Interface:	SMD-O/E (dual port)	IPI-2 (dual port)
Internal Trans Rate (Mbits/sec):	24	24
External Trans Rate (Mbytes/sec):	3	3
Average Seek (msec):	11.5	11.5
Average Latency (msec):	5.5	5.5
Discs:	10	10
Read/Write Heads:	17	17
Cylinders:	2,101	2,101
MTBF		
Class A Computer		
Room:	250,000	250,000
Office Environment:	150,000	150,000
Typical DC (Watts):	44	43
Idle DC (Watts):	40	38
Height (inches/mm):	3.25/82.6	3.25/82.6
Width (inches/mm):	5.75/ 146.1	5.75/ 146.1
Depth (inches/mm):	9.9/252.5	9.9/252.5
Weight (lbs/kg):	9/4.1	9/4.1

11.5 msec average seek

5.56 msec average latency

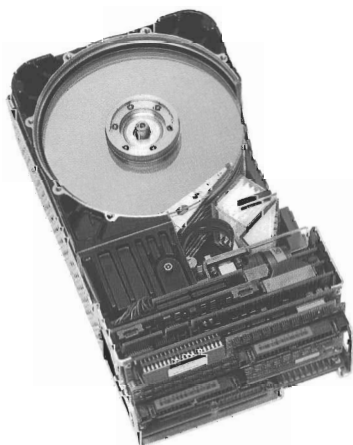
5,400 RPM spindle motor



Elite Family Specifications

5.25-inch Form-Factor

Model	ST41097J <i>Elite-1</i>	ST41520N <i>Elite-1</i>	ST41600N <i>Elite-1</i>
Unformatted Megabytes:	1,097	1,600	1,600
Formatted Megabytes (512 Bytes/sector):	NA	1,352	1,352
Interface:	SMD-0/E	SCSI	SCSI-2
Internal Trans Rate (Mbits/sec):	22	24 to 36	24 to 35
External Trans Rate (Mbytes/sec):	2.75	5	5
Average Seek (msec):	11.5	11.5	11.5
Average Latency (msec):	5.5	5.5	5.5
Discs:	10	10	10
Read/Write Heads:	17	17	17
Cylinders:	2,101	2,101	2,101
MTBF			
Class A Computer Room:	250,000	250,000	250,000
Office Environment:	150,000	150,000	150,000
Typical DC (Watts):	44	41	37
Idle DC (Watts):	40	37	34
Height (inches/mm):	3.25/82.6	3.25/82.6	3.25/82.6
Width (inches/mm):	5.75/ 146.1	5.75/ 146.1	5.75/ 146.1
Depth (inches/mm):	9.9/ 252.5	9.9/ 252.5	8.0/ 203
Weight (lbs/kg):	9/4.1	9/4.1	7.8/3.6



Sabre Family Specifications

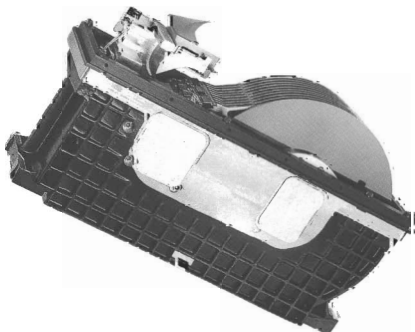
8-inch Form-Factor

Model	ST8851J ST8851K ST8851N Sabre-4	ST81236J ST81236K ST81236N Sabre-5	ST81123J Sabre-5
Unformatted Megabytes:	851	1,236	1,123
Formatted Megabytes (512 Bytes/sector):	727	1,056	NA
Interface:	SMD-O/E IPI-2 (dual port) SCSI	SMD-O/E IPI-2 (dual port) SCSI	SMD-O/E (dual port)
External Trans Rate (Mbytes/sec):	2.4	3.0	2.75
Average Seek (msec):	15.0	15.0	15.0
Average Latency (msec):	8.33	8.33	8.33
Discs:	9	9	9
Read/Write Heads:	15	15	15
Cylinders:	1,381	1,635	1,635
MTBF			
Office Environment:	100,000	150,000	150,000
Power (Watts):	95/ 324.2	95/ 324.2	95/ 324.2
Height (inches/mm):	4.75/ 120.65	4.75/ 120.65	4.75/ 120.65
Width (inches/mm):	8.5/216	8.5/216	8.5/216
Depth (inches/mm):	14.7/ 373.38	14.7/ 373.38	14.7/ 373.38
Weight (lbs/kg):	32/15	32/15	32/15

Capacities up to 3.2 Gbytes

**Transfer rates as high as 27
Mbytes/sec**

12 msec average seek

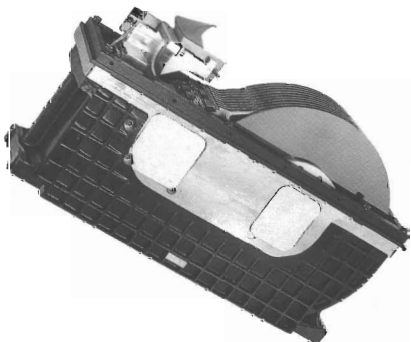


Sabre Family Specifications

8-inch Form-Factor

		ST82500J ST82500K	ST82272J	ST82038J
Model	ST81154K 2 HP Sabre-5	ST82500N Sabre-6	Sabre-6	Sabre-6
Unformatted Megabytes:	1,154	2,500	2,272	2,038
Formatted Megabytes (512 Bytes/sector):	NA	2,140	NA	NA
Interface:	IPI-2 (dual port)	SMD-O/E IPI-2 (dual port) SCSI	SMD-E (dual port)	SMD-E (dual port)
External Trans Rate (Mbytes/sec):	6.0	3.0	2.75	2.4
Average Seek (msec):	15.0	12.0	12.0	12.0
Average Latency (msec):	8.33	8.33	8.33	8.33
Discs:	9	11	11	11
Read/Write Heads:	14	19	19	19
Cylinders:	1,635	2,611	2,611	2,611
MTBF				
Class A Computer				
Room:	250,000	250,000	250,000	250,000
Office Environment:	150,000	150,000	150,000	150,000
Power (Watts):	110/375	95/324.2	95/324.2	95/324.2
Height (inches/mm):	4.75/ 120.65	4.75/ 120.65	4.75/ 120.65	4.75/ 120.65
Width (inches/mm):	8.5/216	8.5/216	8.5/216	8.5/216
Depth (inches/mm):	14.7/ 373.38	14.7/ 373.3	14.7/ 373.3	14.7/ 373.3
Weight (lbs/kg):	32/15	28/13	28/13	28/13

ST82105K	ST82368K	ST83220K	ST83050K
8 HP Sabre-6	9 HP Sabre-6	Sabre-7	2 HP Sabre-7
2,105	2,368	3,220	3,050
NA	NA	NA	NA
IPI-2 (enhanced dual port)	IPI-2 (enhanced dual port)	IPI-2 (dual port)	IPI-2 (dual port)
24	27	4.67	9.34
12.0	12.0	12.0	12.0
8.33	8.33	6.87	6.87
11	11	11	11
16	18	19	18
2,611	2,611	2,655	2,655
100,000	100,000	250,000	250,000
80,000	80,000	150,000	150,000
255/870	275/938	95/324.2	110/375
8.5/214.4	8.5/214.4	4.75/ 120.65	4.75/ 120.65
8.72/ 221.5	8.72/ 221.5	8.5/216	8.5/216
29.5/ 749.3	29.5/ 749.3	14.7/ 373.3	14.7/ 373.3
54/25	54/25	28/13	26/13



ST8167 Family Specifications

Solid State Disc

Model	ST833K	ST867K	ST8100K
Unformatted Megabytes:	33	67	100
Interface:	IPI-2 (dual port)	IPI-2 (dual port)	IPI-2 (dual port)
Trans Rate (Mbytes/sec):	2.5 to 10.0	2.5 to 10.0	2.5 to 10.0
Average Access Time (msec):	0.15	0.15	0.15
Logical Read/Write Heads:	1 to 32	1 to 32	1 to 32
Cylinders:	1 to 992	1 to 992	1 to 992
MTBF (POH):	100,000	100,000	100,000
Power (Watts):	83/284	86/294	89/304
Height (inches/mm):	4.75/ 120.65	4.75 120.65	4.75 120.65
Width (inches/mm):	8.26/ 209.80	8.26/ 209.80	8.26/ 209.80
Depth (inches/mm):	15.75/ 400.05	15.75/ 400.05	15.75/ 400.05
Weight (lbs/kg):	29/13.18	30/13.64	31/14.09

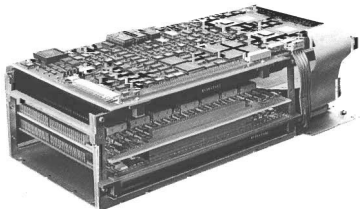
ST8134K ST8167K

134	167
IPI-2 (dual port)	IPI-2 (dual port)
2.5 to 10.0	2.5 to 10.0
0.15	0.15
1 to 32	1 to 32
1 to 992	1 to 992
100,000	100,000
92/314	95/324
4.75/ 120.65	4.75/ 120.65
8.26/ 209.80	8.26/ 209.80
15.75/ 400.05	15.75/ 400.05
32/14.55	33/14.97

**Up to 100 times faster than
standard disc drives**

0.15 msec access time

**Selectable transfer rates from
2.5-10 Mbytes/sec**



FSD Family Specifications

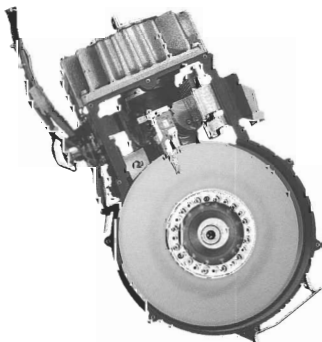
9-inch, Fixed Storage Drives

<i>Model</i>	<i>ST6344J</i>	<i>ST6515J</i> <i>ST6515K</i>
<i>Unformatted Megabytes:</i>	344	516
<i>Interface:</i>	SMD	SMD SMD-E IPI-2
<i>External Trans Rate</i> <i>(Mbytes/sec):</i>	1.2	1.8
<i>Average Seek (msec):</i>	18	18
<i>Average Latency (msec):</i>	8.3	8.3
<i>Discs:</i>	7	7
<i>Read/Write Heads:</i>	24	24
<i>Cylinders:</i>	711	711
<i>MTBF:</i>	30,000	30,000
<i>Power (Watts):</i>	225	225
<i>Height (inches/mm):</i>	10.2/259	10.2/259
<i>Width (inches/mm):</i>	8.5/216	8.5/216
<i>Depth (inches/mm)</i>		
<i>With Power Supply:</i>	29.9/757	29.9/757
<i>Without Power Supply:</i>	24.4/641	24.5/641
<i>Drive Weight w/o</i> <i>Power Supply (lbs/kg):</i>	70/31	70/31
<i>Power Supply Weight</i> <i>(lbs/kg):</i>	12/5.4	12/5.4

Up to 516 Mbytes of reliable storage

SMD, SMD-E and IPI-2 interfaces

Transfer rates up to 1.8 Mbytes/sec



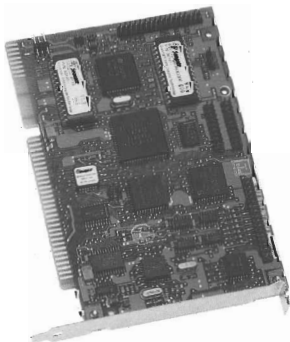
XT and AT Controllers

Model	ST11M ST11R	ST21M ST21R	ST22M ST22R
Host Bus:	XT	AT	AT
Interface:	ST412	ST412	ST412
Drives Supported:	2	2	2
Cylinders:	up to 1,024	up to 1,024	up to 1,024
Extra Drive Power Connector:	yes	yes	yes
Data Encoding:	MFM/ RLL	MFM/ RLL	MFM/ RLL
Data Trans Rate (Mbits/sec):	5.0/ 7.5	5.0/ 7.5	5.0/ 7.5
Diskette Drives Supported:	NA	NA	2-3.5/5.25
Onboard BIOS:	yes	yes	yes
MTBF (POH):	100,000	100,000	100,000
Ambient Temp (°C):	5 to 55	5 to 55	5 to 55
+5 VDC ±5% (Amps typ):	1.0	1.0	1.0
Width (inches/mm):	4.20/ 106.68	4.20/ 106.68	4.20/ 106.68
Length (inches/mm):	4.95/ 125.73	6.13/ 155.7	6.13/ 155.7

ST412 interface controllers provide a choice of 8/16-bit performance for PC XT/AT applications

Support up to 2 drives

ST22M and ST22R have onboard floppy diskette controller

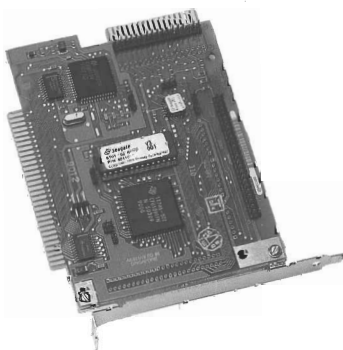


XT, AT and SCSI Host Adapters

Model	ST05X	ST07A ST08A	ST01 ST02
Host Bus:	XT	AT	XT/AT
Interface:	XT	AT	SCSI
Drives Supported:	2	2	2
Cylinders:	up to 1,024	up to 1,024	up to 1,024
Read/Write Heads:	up to 16	up to 16	up to 16
Extra Drive Power Connector:	yes	yes	yes
Diskette Drives Supported:	NA	NA/ 2-3.5/5.25	NA/ 2-3.5/5.25
Onboard BIOS:	yes	no	yes
MTBF (POH):	100,000	100,000	100,000
Ambient Temp (°C):	5 to 55	5 to 55	5 to 55
+5 VDC ±5% (Amps typ):	0.5	0.5	0.5
Width (inches/mm):	4.20/ 106.68	4.20/ 106.68	4.20/ 106.68
Length (inches/mm):	4.95/ 125.73	6.13/ 155.7	4.95/ 125.73

XT/AT/SCSI host adapters offer a convenient method of connecting drives to systems without motherboard connector

Onboard BIOS provides full DOS compatibility



Customer Service

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For Wren family drives, please call:

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<i>Canada and South America</i>	405/491-6160

For all other 5.25-inch drives, please call:

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<i>Canada and South America</i>	405/491-9627 Central FAX: 405/491-6261

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