

MANUFACTURER	NEC	NEC	NEC	QUANTUM	QUANTUM
DRIVE					
	D3881	D3392	D3892	127A Daytona	127S Daytona
DISK/TREND GROUP	5	7	7	3	3
MARKET	Captive, OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	65 mm OD 20 mm ID Thin Film	65 mm OD 20 mm ID Thin Film
DRIVE: Heads Interface	Thin Film SCSI-2	Thin Film IPI-2	Thin Film SCSI-2	Thin Film PC AT	Thin Film SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 426.16	F: 1,434	F: 1,434	F: 127	F: 127
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	F: 32,200	F: 30,208	F: 30,208	Varies by zone	Varies by zone
Data surfaces per spindle	9	19	19	2	2
Tracks per surface	1468	2495	2495	1704	1704
Track density (TPI)	2000	2840	2840	3100	3100
Maximum linear density (BPI) (FCI)	49000 36750	55900 41925	55900 41925	71600 53700	71600 53700
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	3600	5400	5400	4500	4500
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Dedicated Surf.	Dedicated Surf.	Dedicated Surf.	Embedded	Embedded
Average positioning time (msec)	14	11.8	11.8	17	17
Average rotational delay (msec)	8.3	5.6	5.6	6.7	6.7
Average access time (msec)	22.3	17.4	17.4	23.7	23.7
Data transfer rate (KBytes/sec)	5000 synch. 2365 asynch.	5000 synch. 2500 asynch.	5000 synch. 2500 asynch.	11100 PIO* 13300 DMA**	10000 synch.
SIZE: (mm) H x W x D	41.3 x 101.6 x 146.1	41.3 x 101.6 x 146.1	41.3 x 101.6 x 146.1	12.5 x 70 x 100	12.5 x 70 x 100
FIRST CUSTOMER SHIPMENT	2Q91	2Q93	2Q93	1/94	1/94
COMMENTS				*PIO Mode 3 **DMA Mode 1	

MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE					
	170AT GLS Go.Drive	170AT LPS ProDrive	170S GLS Go.Drive	170S LPS ProDrive	210A LPS ProDrive
DISK/TREND GROUP	3	3	3	3	4
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter	65 mm OD	95 mm OD	65 mm OD	95 mm OD	95 mm OD
Recording medium	20 mm ID Thin Film	25 mm ID Thin Film	20 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film
DRIVE: Heads	Thin Film	Thin Film	Thin Film	Thin Film	MIG
Interface	PC AT	PC AT	SCSI-2	SCSI-2	PC AT
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 170	F: 170	F: 170	F: 170	F: 211.0
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	4	2	4	2	2
Tracks per surface	1395	2337	1395	2337	2515
Track density (TPI)	2529	2670	2529	2670	2670
Maximum linear density (BPI) (FCI)	57812 43359	48865 36648	57812 43359	48865 36648	55179 41384
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	3600	3600	3600	3600	3600
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Embedded	Embedded
Average positioning time (msec)	17	14	17	14	14
Average rotational delay (msec)	8.3	8.3	8.3	8.3	8.3
Average access time (msec)	25.3	22.3	25.3	22.3	22.3
Data transfer rate (KBytes/sec)	4000	6000	4000 synch. 3000 asynch.	10000 synch. 5000 asynch.	6000
SIZE: (mm) H x W x D	17 x 70 x 101.6	25.4 x 101.6 x 146.1	17 x 70 x 101.6	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	6/93	4Q93	6/93	4Q93	1Q94
COMMENTS					

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<b>MANUFACTURER</b>	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
<b>DRIVE</b>					
	256A Daytona	256S Daytona	270A Maverick	270AT LPS ProDrive	270S LPS ProDrive
<b>DISK/TREND GROUP</b>	4	4	4	4	4
<b>MARKET</b>	OEM	OEM	OEM	OEM	OEM
<b>MEDIA: Nominal disk diameter</b>	65 mm OD	65 mm OD	95 mm OD	95 mm OD	95 mm OD
<b>Recording medium</b>	20 mm ID Thin Film	20 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film
<b>DRIVE: Heads</b>	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
<b>Interface</b>	PC AT	SCSI-2	PC AT	PC AT	SCSI-2
<b>CAPACITY/RECORDING DENSITY</b>					
<b>Total capacity (Mbytes) FIXED</b>	F: 256	F: 256	F: 270	F: 270.6	F: 270.6
<b>REMOVABLE</b>	--	--	--	--	--
<b>Capacity per track (Bytes)</b>	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
<b>Data surfaces per spindle</b>	4	4	2	2	2
<b>Tracks per surface</b>	1704	1704	2856	2740	2740
<b>Track density (TPI)</b>	3100	3100	2950	2875	2875
<b>Maximum linear density (BPI) (FCI)</b>	71600 53700	71600 53700	60204 45266	62600 45900	62600 45900
<b>Recording code</b>	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
<b>Rotational speed (RPM)</b>	4500	4500	3600	4500	4500
<b>PERFORMANCE</b>					
<b>Actuator type</b>	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
<b>Servo type</b>	Embedded	Embedded	Embedded	Embedded	Embedded
<b>Average positioning time (msec)</b>	17	17	14	12	12
<b>Average rotational delay (msec)</b>	6.7	6.7	8.3	6.7	6.7
<b>Average access time (msec)</b>	23.7	23.7	22.3	18.7	18.7
<b>Data transfer rate (KBytes/sec)</b>	11100 PIO* 13300 DMA**	10000 synch.	6000	6000	10000 synch. 6000 asynch.
<b>SIZE: (mm) H x W x D</b>	12.5 x 70 x 100	12.5 x 70 x 100	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1
<b>FIRST CUSTOMER SHIPMENT</b>	1/94	1/94	6/94	4Q93	4Q93
<b>COMMENTS</b>	*PIO Mode 3  **DMA Mode 1				

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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE					
	270S Maverick	340A LPS ProDrive	340S LPS ProDrive	341A Daytona	341S Daytona
DISK/TREND GROUP	4	5	5	5	5
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter	95 mm OD	95 mm OD	95 mm OD	65 mm OD	65 mm OD
Recording medium	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	20 mm ID Thin Film	20 mm ID Thin Film
DRIVE: Heads	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Interface	SCSI-2	PC AT	SCSI-2	PC AT	SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 270	F: 342	F: 342	F: 341	F: 341
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	2	4	4	6	6
Tracks per surface	2856	2337	2337	1704	1704
Track density (TPI)	2950	2670	2670	3100	3100
Maximum linear density (BPI) (FCI)	60204 45266	48650 36487	48650 36487	71600 53700	71600 53700
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	3600	3600	3600	4500	4500
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Embedded	Embedded
Average positioning time (msec)	14	12	12	17	17
Average rotational delay (msec)	8.3	8.3	8.3	6.7	6.7
Average access time (msec)	22.3	20.3	20.3	23.7	23.7
Data transfer rate (KBytes/sec)	10000 synch. 5000 asynch.	6000	10000 synch. 6000 asynch.	11100 PIO* 13300 DMA**	10000 synch.
SIZE: (mm) H x W x D	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	19 x 70 x 100	19 x 70 x 100
FIRST CUSTOMER SHIPMENT	6/94	4Q93	4Q93	1/94	1/94
COMMENTS				*PIO Mode 3 **DMA Mode 1	

<b>MANUFACTURER</b>	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
<b>DRIVE</b>					
	365A Lightning	365S Lightning	420A LPS ProDrive	514A Daytona	514S Daytona
<b>DISK/TREND GROUP</b>	5	5	5	6	6
<b>MARKET</b>	OEM	OEM	OEM	OEM	OEM
<b>MEDIA: Nominal disk diameter</b>	95 mm OD	95 mm OD	95 mm OD	65 mm OD	65 mm OD
<b>Recording medium</b>	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	20 mm ID Thin Film	20 mm ID Thin Film
<b>DRIVE: Heads</b>	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
<b>Interface</b>	PC AT	SCSI-2	PC AT	PC AT	SCSI-2
<b>CAPACITY/RECORDING DENSITY</b>					
<b>Total capacity (Mbytes) FIXED</b>	F: 365.7	F: 365.7	F: 421	F: 514	F: 514
<b>REMOVABLE</b>	--	--	--	--	--
<b>Capacity per track (Bytes)</b>	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
<b>Data surfaces per spindle</b>	2	2	4	8	8
<b>Tracks per surface</b>	3673	3673	2519	1704	1704
<b>Track density (TPI)</b>	3794	3794	2670	3100	3100
<b>Maximum linear density (BPI)</b>	63515	63515	55179	71600	71600
<b>(FCI)</b>	47636	47636	41595	53700	53700
<b>Recording code</b>	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
<b>Rotational speed (RPM)</b>	4500	4500	3600	4500	4500
<b>PERFORMANCE</b>					
<b>Actuator type</b>	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
<b>Servo type</b>	Embedded	Embedded	Embedded	Embedded	Embedded
<b>Average positioning time (msec)</b>	11	11	12	17	17
<b>Average rotational delay (msec)</b>	6.7	6.7	8.3	6.7	6.7
<b>Average access time (msec)</b>	17.7	17.7	20.3	23.7	23.7
<b>Data transfer rate (KBytes/sec)</b>	6000	10000 asynch. 6000 synch.	6000	11100 PIO* 13300 DMA**	10000 synch.
<b>SIZE: (mm) H x W x D</b>	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.2	19 x 70 x 100	19 x 70 x 100
<b>FIRST CUSTOMER SHIPMENT</b>	4/94	4/94		1/94	1/94
<b>COMMENTS</b>				*PIO Mode 3 **DMA Mode 1	

**1994 DISK/TREND REPORT**

MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE	540A Lightning	540A LPS ProDrive	540A Maverick	540S Empire	540S Lightning
DISK/TREND GROUP	6	6	6	6	6
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter Recording medium	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film	95 mm OD 25 mm ID Thin Film
DRIVE: Heads Interface	Thin Film PC AT	Thin Film PC AT	Thin Film PC AT	Thin Film SCSI-3	Thin Film SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 541.3	F: 541.3	F: 540	U: 616 F: 540	F: 541.3
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	3	4	4	4	3
Tracks per surface	3673	2740	2856	2874	3673
Track density (TPI)	3794	2875	2950	3014	3794
Maximum linear density (BPI) (FCI)	63515 47636	62600 45900	60204 45266	63600 47700	63515 47636
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	4500	4500	3600	5400	4500
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Embedded	Embedded
Average positioning time (msec)	11	12	14	9.5 RD/11 WR	11
Average rotational delay (msec)	6.7	6.7	8.3	5.6	6.7
Average access time (msec)	17.7	18.7	22.3	15.1 RD/16.6 WR	17.7
Data transfer rate (KBytes/sec)	6000	6000	6000	20000 synch. 10000 asynch.	10000 synch. 6000 asynch.
SIZE: (mm) H x W x D	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	4/94	4Q93	6/94	4Q93	4/94
COMMENTS					

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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE	540S LPS ProDrive	540S Maverick	730A Lightning	730S Lightning	DSP3053L
DISK/TREND GROUP	6	6	6	6	6
MARKET	OEM	OEM	OEM	OEM	OEM, PCM
MEDIA: Nominal disk diameter	95 mm OD	95 mm OD	95 mm OD	95 mm OD	95 mm OD
Recording medium	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film
DRIVE: Heads	Thin Film	Thin Film	Thin Film	Thin Film	MR Thin Film
Interface	SCSI-2	SCSI-2	PC AT	SCSI-2	SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 541.3	F: 540	F: 731.5	F: 731.5	U: 684 F: 535
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	4	4	4	4	4
Tracks per surface	2740	2856	3673	3673	3117
Track density (TPI)	2875	2950	3794	3794	3256
Maximum linear density (BPI)	62600	60204	63515	63515	61509
(FCI)	45900	45266	47636	47636	46132
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL
Rotational speed (RPM)	4500	3600	4500	4500	5400
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Embedded	Embedded
Average positioning time (msec)	12	14	11	11	9.5
Average rotational delay (msec)	6.7	8.3	6.7	6.7	5.6
Average access time (msec)	18.7	22.3	17.7	17.7	15.1
Data transfer rate (KBytes/sec)	10000 synch. 6000 asynch.	10000 synch. 5000 asynch.	6000	10000 synch. 6000 asynch.	20000 synch. 10000 asynch.
SIZE: (mm) H x W x D	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	4Q93	6/94	4/94	4/94	10/94
COMMENTS					

MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE					
	1050S ProDrive	1080S Empire	1225S ProDrive	1400S Empire	1800S ProDrive
DISK/TREND GROUP	7	7	7	7	7
MARKET	OEM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter	95 mm OD	95 mm OD	95 mm OD	95 mm OD	95 mm OD
Recording medium	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film
DRIVE: Heads	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Interface	SCSI-2	SCSI-3	SCSI-2	SCSI-3	SCSI-2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 1,050	U: 1,232 F: 1,080	F: 1,225	U: 1,604 F: 1,400	U: 2,133 F: 1,800
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	12	8	14	8	14
Tracks per surface	2448	2874	2959	3115	2959
Track density (TPI)	2670	3014	3260	3200	3260
Maximum linear density (BPI) (FCI)	50500 37900	63600 47700	50500 37900	80000 90000	63691 47768
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	PRML	1,7 RLL
Rotational speed (RPM)	4500	5400	4500	5400	4500
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Embedded	Embedded
Average positioning time (msec)	10 RD/12 WR	9.5 RD/11 WR	10 RD/12 WR	9.5 RD/11 WR	10 RD/12 WR
Average rotational delay (msec)	6.7	5.6	6.7	5.6	6.7
Average access time (msec)	16.7/18.7	15.1 RD/16.6 WR	16.7/18.7	15.1/16.6	16.7 RD/18.7 WR
Data transfer rate (KBytes/sec)	10000 synch. 5000 asynch.	20000 synch. 10000 asynch.	10000 synch. 5000 asynch.	20000 synch. 5000 asynch.	10000 synch. 5000 asynch.
SIZE: (mm) H x W x D	41.3 x 101.6 x 146.1	25.4 x 101.6 x 146.1	41.3 x 101.6 x 146.1	25.4 x 101.6 x 146.1	41.3 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	9/92	4Q93	9/92	1Q94	8/93
COMMENTS					



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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE					
	DSP3107L	DSP3133L	XP31070 Atlas	2100S Empire	2160S Empire
DISK/TREND GROUP	7	7	7	8	8
MARKET	OEM, PCM	OEM, PCM	OEM, PCM	OEM	OEM
MEDIA: Nominal disk diameter	95 mm OD	95 mm OD	95 mm OD	95 mm OD	95 mm OD
Recording medium	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film
DRIVE: Heads	MR Thin Film	MR Thin Film	Thin Film	Thin Film	Thin Film
Interface	SCSI-2	SCSI-2	SCSI-2	SCSI-3	SCSI-3
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 1,368 F: 1,070	U: 1,709 F: 1,337	U: 1,344 F: 1,075	U: 2,406 F: 2,100	U: 2,475 F: 2,160
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	8	10	5	12	12
Tracks per surface	3117	3117	3832	3115	3100
Track density (TPI)	3256	3256	3858	3200	3150
Maximum linear density (BPI) (FCI)	61509 46132	61509 46132	81765 61324	80000 90000	80000 90000
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	PRML	PRML
Rotational speed (RPM)	5400	5400	7200	5400	5400
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Embedded	Embedded
Average positioning time (msec)	9.5	9.5	8.5	9.5 RD/11 WR	9.5 RD/11 WR
Average rotational delay (msec)	5.6	5.6	4.17	5.6	5.6
Average access time (msec)	15.1	15.1	12.67	15.1/16.6	15.1/16.6
Data transfer rate (KBytes/sec)	20000 synch. 10000 asynch.	20000 synch. 10000 asynch.	20000 synch. 10000 asynch.	20000 synch. 5000 asynch.	20000 synch. 5000 asynch.
SIZE: (mm) H x W x D	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	41.3 x 101.6 x 146.1	41.3 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	10/94	10/94	4Q94	1Q94	1Q94
COMMENTS					

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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE	DSP3210	VP31110 Capella	VP32210 Capella	XP32150 Atlas	XP32151 (2140S) Grand Prix
DISK/TREND GROUP	8	8	8	8	8
MARKET	OEM, PCM	OEM, PCM	OEM, PCM	OEM, PCM	OEM
MEDIA: Nominal disk diameter	95 mm OD	95 mm OD	95 mm OD	95 mm OD	95 mm OD
Recording medium	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film
DRIVE: Heads	MR Thin Film	MR Thin Film	MR Thin Film	Thin Film	Thin Film
Interface	SCSI-2	SCSI-2	SCSI-2	SCSI-2	SCSI-3
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 2,688 F: 2,148	U: 1,412 F: 1,108	U: 2,824 F: 2,216	U: 2,689 F: 2,150	U: 2,619 F: 2,140
REMOVABLE	--	--	--	--	--
Capacity per track (Bytes)	Varies by zone	Varies by zone	Varies by zone	Varies by zone	Varies by zone
Data surfaces per spindle	16	4	8	10	10
Tracks per surface	3045	4165	4165	3832	4066
Track density (TPI)	3256	4350	4350	3858	4000
Maximum linear density (BPI) (FCI)	64000 48000	98600 73950	98600 73950	81765 61324	89600 79600
Recording code	1,7 RLL	1,7 RLL	1,7 RLL	1,7 RLL	PRML
Rotational speed (RPM)	5400	5400	5400	7200	7200
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Embedded	Embedded
Average positioning time (msec)	9.5	8.5 RD/9.5 WR	8.5 RD/9.5 WR	8.5	8.6 RD/10.6 WR
Average rotational delay (msec)	5.6	5.6	5.6	4.17	4.17
Average access time (msec)	15.1	14.1/15.1	14.1/15.1	12.67	12.77/14.77
Data transfer rate (KBytes/sec)	20000 synch. 10000 asynch.	20000 synch. 10000 asynch.	20000 synch. 10000 asynch.	20000 synch. 10000 asynch.	20000 synch.
SIZE: (mm) H x W x D	41.3 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1	41.3 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	10/94	1Q95	1Q95	4Q94	4Q94
COMMENTS					

MANUFACTURER	QUANTUM	QUANTUM	RAYMOND ENGINEERING	RAYMOND ENGINEERING	SAGEM
DRIVE	XP34300 Atlas	XP34301 (4280S) Grand Prix	8440	84300	MSA 252-200
DISK/TREND GROUP	9	9	2	5	4
MARKET	OEM, PCM	OEM	OEM	OEM	OEM
MEDIA: Nominal disk diameter	95 mm OD	95 mm OD	95 mm OD	95 mm OD	130 mm OD
Recording medium	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	25 mm ID Thin Film	40 mm ID Thin Film
DRIVE: Heads	Thin Film	Thin Film	Ferrite	Thin Film	Ferrite
Interface	SCSI-2	SCSI-3	SCSI	SCSI	SCSI
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	U: 5,378 F: 4,300	U: 5,238 F: 4,280	--	--	--
REMOVABLE	--	--	F: 40.55	F: 306	F: 200
Capacity per track (Bytes)	Varies by zone	Varies by zone	F: 11,264	F: 27,648	F: 23,040
Data surfaces per spindle	20	20	8	9	16
Tracks per surface	3832	4066	450	1231	720
Track density (TPI)	3858	4000	850	2075	950
Maximum linear density (BPI) (FCI)	81765 61324	89600 79600	17000 17000	46227 30818	19680 14760
Recording code	1,7 RLL	PRML	MFМ	2,7 RLL	1,7 RLL
Rotational speed (RPM)	7200	7200	3637	3688	3600
PERFORMANCE					
Actuator type	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil	Rotary, Voice Coil
Servo type	Embedded	Embedded	Embedded	Dedicated Surf.	Embedded
Average positioning time (msec)	8.5	8.6 RD/10.6 WR	115	25	17
Average rotational delay (msec)	4.17	4.17	8.3	8.1	8.3
Average access time (msec)	12.67	12.77/14.77	123.3	33.1	25.3
Data transfer rate (KBytes/sec)	20000 synch. 10000 asynch.	20000 synch.	400	1200	1500
SIZE: (mm) H x W x D	41.3 x 101.6 x 146.1	41.3 x 101.6 x 146.1	58.4 x 106.7 x 188	58.4 x 106.7 x 188	220 x 440 x 500
FIRST CUSTOMER SHIPMENT	4Q94	4Q94	1987	1991	10/90
COMMENTS			Mil-Spec ruggedized drive and electronics assembly. *Removable disk drive cartridge	Mil-Spec ruggedized drive and electronics assembly. *Removable disk drive cartridge	Militarized Subsystem  Removable Head/Disk Module

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