

MANUFACTURER	PCS, INC.	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE	8340PA Viper 340 (Integral Peripherals)	QM302500EL-A Fireball EL	QM303200EX-A Fireball EX	QM304300CR-A Fireball CR	QM304550TD-FC Atlas III
DISK/TREND GROUP	2	3	4	4	4
PLATFORM	Mobile	Desktop	Desktop	Desktop	Server
MARKET	OEM	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST
MEDIA: Disk diameter	48 mm	95 mm	95 mm	95 mm	95 mm
Recording medium	Thin Film*	Thin Film	Thin Film	Thin Film	Thin Film
Substrate		Aluminum	Aluminum	Aluminum	Aluminum
DRIVE: Heads	Thin Film	MR Thin Film	MR Thin Film	MR Thin Film	MR Thin Film
Interface	PCMCIA-ATA	Ultra DMA/33	Ultra DMA/33	Ultra DMA/66	FC-AL
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	--	F: 2,564	F: 3,228	F: 4,320	F: 4,550
REMOVABLE	F: 341.1	--	--	--	--
Data surfaces per spindle	4	2	2	2	5
Tracks per surface	2000		11550	12515	8000
Track density (TPI)	5100	10000	12000	13000	8900
Maximum linear density (BPI) (FCI)	123600 92700	194684	222118	260000	175000 186000
Areal density (Gb/square inch)	.630	1.947	2.665	3.380	1.558
Recording code	1,7 PRML	EPRML	EPRML	16,17 PRML	16,17 PRML
Rotational speed (RPM)	4500	5400	5400	5400	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)	12	9.5	9.5	9.5 RD/11.0 WR	7.5 RD
Average rotational delay (msec)	6.7	5.6	5.6	5.6	4.17
Average access time (msec)	18.7	15.1	15.1	15.1 RD/16.6 WR	11.67 RD
Data transfer rate (MBytes/sec) Internal, min/max External	--/5.7 16.0	--/20.3 16.6 P104/DMA2 33.3 Ultra DMA2	--/23.4 16.6 P104/DMA2 33.3 Ultra DMA2	19.1/23.6 16.6 P104/DMA2 66.6 Ultra DMA4	13.8/22.5 200.0
SIZE: (mm) H x W x D	10.5 x 54 x 85.6	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	7/94	5/98	7/98	1Q99	1Q98
COMMENTS	PCMCIA Type III Ramp loaded heads. *Untextured disks.				

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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE					
	QM304550TD-SXX Atlas III	QM34550PX-SXX Viking II	QM305100EL-A Fireball EL	QM305100EX-A Fireball EX	QM306400CR-A Fireball CR
DISK/TREND GROUP	4	4	5	5	5
PLATFORM	Server	Server	Desktop	Desktop	Desktop
MARKET	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST
MEDIA: Disk diameter	95 mm	95 mm	95 mm	95 mm	95 mm
Recording medium	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Substrate	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
DRIVE: Heads	MR Thin Film	MR Thin Film	MR Thin Film	MR Thin Film	MR Thin Film
Interface	SCSI Ultra 2	SCSI Ultra 2	Ultra DMA/33	Ultra DMA/33	Ultra DMA/66
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 4,550	F: 4,550	F: 5,130	F: 5,130	F: 6,480
REMOVABLE	--	--	--	--	--
Data surfaces per spindle	5	5	4	3	3
Tracks per surface	8000	8338		11550	12515
Track density (TPI)	8900	8500	10000	12000	13000
Maximum linear density (BPI) (FCI)	175000 186000	158000	194684	222118	260000
Areal density (Gb/square inch)	1.558	1.343	1.947	2.665	3.380
Recording code	16,17 PRML	16,17 PRML	EPRML	EPRML	16,17 PRML
Rotational speed (RPM)	7200	7200	5400	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)	7.5 RD	8	9.5	9.5	9.5 RD/11.0 WR
Average rotational delay (msec)	4.17	4.17	5.6	5.6	5.6
Average access time (msec)	11.67 RD	12.17	15.1	15.1	15.1 RD/16.6 WR
Data transfer rate (MBytes/sec) Internal, min/max External	13.8/22.5 80.0 synchron.	12.3/21.3 80.0 synchron.	--/20.3 16.6 P104/DMA2 33.3 Ultra DMA2	--/23.4 16.6 P104/DMA2 33.3 Ultra DMA2	19.1/23.6 16.6 P104/DMA2 66.6 Ultra DMA4
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	1Q98	1Q98	5/98	7/98	1Q99
COMMENTS					

MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE					
	QM306400EX-A Fireball EX	QM307600EL-A Fireball EL	QM308400CR-A Fireball CR	QM309100KN-LW QM309100KN-SCA Atlas IV	QM309100TD-SXX Atlas III
DISK/TREND GROUP	5	5	5	5	5
PLATFORM	Desktop	Desktop	Desktop	Server	Server
MARKET	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST
MEDIA: Disk diameter	95 mm	95 mm	95 mm	95 mm	95 mm
Recording medium	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Substrate	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
DRIVE: Heads	MR Thin Film	MR Thin Film	MR Thin Film	MR Thin Film	MR Thin Film
Interface	Ultra DMA/33	Ultra DMA/33	Ultra DMA/66	SCSI Ultra2/160	SCSI Ultra 2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 6,448	F: 7,696	F: 8,640	F: 9,100	F: 9,100
REMOVABLE	--	--	--	--	--
Data surfaces per spindle	4	6	4	4	10
Tracks per surface	11550		12515	13846	8000
Track density (TPI)	12000	10000	13000	13700	8900
Maximum linear density (BPI) (FCI)	222118	194684	260000	249000	175000 186000
Areal density (Gb/square inch)	2.665	1.947	3.380	3.411	1.558
Recording code	EPRML	EPRML	16,17 PRML	24,25 PRML	16,17 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	9.5	9.5 RD/11.0 WR	6.9 RD	7.5 RD
Average rotational delay (msec)	5.6	5.6	5.6	4.17	4.17
Average access time (msec)	15.1	15.1	15.1 RD/16.6 WR	11.07	11.67 RD
Data transfer rate (MBytes/sec) Internal, min/max External	--/23.4 16.6 PIO4/DMA2 33.3 Ultra DMA2	--/20.3 16.6 PIO4/DMA2 33.3 Ultra DMA2	19.1/23.6 16.6 PIO4/DMA2 66.6 Ultra DMA4	18.9/32.1 160 synch.	13.8/22.5 80.0 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	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	7/98	5/98	1099	5/99	1098
COMMENTS					

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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE	QM309100TN-FC Atlas 10K	QM309100TN-LW QM309100TN-SCA Atlas 10K	QM30911TD-FC Atlas III	QM36400CX-A Fireball CX	QM39100PX-SXX Viking II
DISK/TREND GROUP	5	5	5	5	5
PLATFORM	Server	Server	Server	Desktop	Server
MARKET	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST
MEDIA: Disk diameter	84 mm	84 mm	95 mm	95 mm	95 mm
Recording medium	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Substrate	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
DRIVE: Heads	MR Thin Film	MR Thin Film	MR Thin Film	GMR Thin Film	MR Thin Film
Interface	FC-AL	SCSI Ultra2/160	FC-AL	Ultra DMA/66	SCSI Ultra2
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 9,100	F: 9,100	F: 9,100	F: 6,448	F: 9,100
REMOVABLE	--	--	--	--	--
Data surfaces per spindle	6	6	10	2	10
Tracks per surface	10458	10458	8000		8338
Track density (TPI)	13600	13600	8900		8500
Maximum linear density (BPI) (FCI)	254000	254000	175000 186000		158000
Areal density (Gb/square inch)	3.454	3.454	1.558		1.343
Recording code	24,25 PRML	24,25 PRML	16,17 PRML		16,17 PRML
Rotational speed (RPM)	10000	10000	7200	5400	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)	5.0	5.0	7.5 RD	9.5	8
Average rotational delay (msec)	3.0	3.0	4.17	5.6	4.17
Average access time (msec)	8.0	8.0	11.67 RD	15.1	12.17
Data transfer rate (MBytes/sec) Internal, min/max External	26.9/39.4 100	26.9/39.4 160 synch.	13.8/22.5 200.0	--/30.1 16.6 PIO4/DMA2 66.6 Ultra DMA4	12.3/21.3 80.0 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	25.4 x 101.6 x 146.1	25.4 x 101.6 x 146.1
FIRST CUSTOMER SHIPMENT	3Q99	5/99	1Q98	4/99	1Q98
COMMENTS					

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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE	QM506400TS Bigfoot TS	QM508400TS Bigfoot TS	QMP06400KA-A Fireball Plus KA	QMP09100KA-A Fireball Plus KA	QM310200CX-A Fireball CX
DISK/TREND GROUP	5	5	5	5	6
PLATFORM	Desktop	Desktop	Desktop	Desktop	Desktop
MARKET	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST
MEDIA: Disk diameter	130 mm	130 mm	95 mm	95 mm	95 mm
Recording medium	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Substrate	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
DRIVE: Heads	MR Thin Film	MR Thin Film	MR Thin Film	MR Thin Film	GMR Thin Film
Interface	Ultra DMA/33	Ultra DMA/33	Ultra DMA/66	Ultra DMA/66	Ultra DMA/66
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 6,418	F: 8,455	F: 6,400	F: 9,100	F: 10,275
REMOVABLE	--	--	--	--	--
Data surfaces per spindle	2	3	3	4	3
Tracks per surface	15449	15495	13889	13889	
Track density (TPI)	12000	12000	13700	13700	
Maximum linear density (BPI) (FCI)	205458 218299	205458 218299	241000	241000	
Areal density (Gb/square inch)	2.465	2.465	3.302	3.302	
Recording code	16,17 PRML	16,17 PRML	16,17 PRML	16,17 PRML	
Rotational speed (RPM)	4000	4000	7200	7200	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)	10.5	10.5	8.5	8.5	9.5
Average rotational delay (msec)	7.5	7.5	4.17	4.17	5.6
Average access time (msec)	18.0	18.0	12.67	12.67	15.1
Data transfer rate (MBytes/sec)					
Internal, min/max	12.6/21.0	12.6/21.0	--/29.4	--/29.4	--/30.1
External	16.6 P104/DMA2 33.3 Ultra DMA2	16.6 P104/DMA2 33.3 Ultra DMA2	16.6 P104/DMA2 66.6 Ultra DMA4	16.6 P104/DMA2 66.6 Ultra DMA4	16.6 P104/DMA2 66.6 Ultra DMA4
SIZE: (mm) H x W x D	25.4 x 146.1 x 203.2	25.4 x 146.1 x 203.2	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	10/98	10/98	1Q99	1Q99	4/99
COMMENTS					

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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE	QM310200EL-A Fireball EL	QM310200EX-A Fireball EX	QM312700CR-A Fireball CR	QM312700EX-A Fireball EX	QM313000CX-A Fireball CX
DISK/TREND GROUP	6	6	6	6	6
PLATFORM	Desktop	Desktop	Desktop	Desktop	Desktop
MARKET	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST
MEDIA: Disk diameter	95 mm	95 mm	95 mm	95 mm	95 mm
Recording medium	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Substrate	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
DRIVE: Heads	MR Thin Film	MR Thin Film	MR Thin Film	MR Thin Film	GMR Thin Film
Interface	Ultra DMA/33	Ultra DMA/33	Ultra DMA/66	Ultra DMA/33	Ultra DMA/66
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 10,262	F: 10,262	F: 12,960	F: 12,720	F: 13,020
REMOVABLE	--	--	--	--	--
Data surfaces per spindle	8	6	6	8	4
Tracks per surface		11550	12515	11550	
Track density (TPI)	10000	12000	13000	12000	
Maximum linear density (BPI) (FCI)	194684	222118	260000	222118	
Areal density (Gb/square inch)	1.947	2.665	3.380	2.665	
Recording code	EPRML	EPRML	16,17 PRML	EPRML	
Rotational speed (RPM)	5400	5400	5400	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	9.5 RD/11.0 WR	9.5	9.5
Average rotational delay (msec)	5.6	5.6	5.6	5.6	5.6
Average access time (msec)	15.1	15.1	15.1 RD/16.6 WR	15.1	15.1
Data transfer rate (MBytes/sec)					
Internal, min/max	--/20.3	--/23.4	19.1/23.6	--/23.4	--/30.1
External	16.6 PIO4/DMA2 33.3 Ultra DMA2	16.6 PIO4/DMA2 33.3 Ultra DMA2	16.6 PIO4/DMA2 66.6 Ultra DMA4	16.6 PIO4/DMA2 33.3 Ultra DMA2	16.6 PIO4/DMA2 66.6 Ultra DMA4
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	5/98	7/98	1099	7/98	4/99
COMMENTS					

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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE	QM318200KN-LW QM318200KN-SCA Atlas IV	QM318200TD-FC Atlas III	QM318200TD-SXX Atlas III	QM318200TN-FC Atlas 10K	QM318200TN-LW QM318200TN-SCA Atlas 10K
DISK/TREND GROUP	6	6	6	6	6
PLATFORM	Server	Server	Server	Server	Server
MARKET	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST
MEDIA: Disk diameter	95 mm	95 mm	95 mm	84 mm	84 mm
Recording medium	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Substrate	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
DRIVE: Heads	MR Thin Film	MR Thin Film	MR Thin Film	MR Thin Film	MR Thin Film
Interface	SCSI Ultra2/160	FC-AL	SCSI Ultra2	FC-AL	SCSI Ultra2/160
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 18,200	F: 18,200	F: 18,200	F: 18,200	F: 18,200
REMOVABLE	--	--	--	--	--
Data surfaces per spindle	8	20	20	12	12
Tracks per surface	13846	8000	8000	10458	10458
Track density (TPI)	13700	8900	8900	13600	13600
Maximum linear density (BPI) (FCI)	249000	175000 186000	175000 186000	254000	254000
Areal density (Gb/square inch)	3.411	1.558	1.558	3.454	3.454
Recording code	24,25 PRML	16,17 PRML	16,17 PRML	24,25 PRML	24,25 PRML
Rotational speed (RPM)	7200	7200	7200	10000	10000
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)	6.9 RD	7.5 RD	7.5 RD	5.0	5.0
Average rotational delay (msec)	4.17	4.17	4.17	3.0	3.0
Average access time (msec)	11.07	11.67 RD	11.67 RD	8.0	8.0
Data transfer rate (MBytes/sec) Internal, min/max External	18.9/32.1 160 synch.	13.8/22.5 200.0	13.8/22.5 80.0 synch.	26.9/39.4 160 synch.	26.9/39.4 160 synch.
SIZE: (mm) H x W x D	25.4 x 101.6 x 146.1	41.3 x 101.6 x 146.1	41.3 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	5/99	1Q98	1Q98	3Q99	5/99
COMMENTS					

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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
DRIVE	QM512700TS Bigfoot TS	QM519200TS Bigfoot TS	QMP13600KA-A Fireball Plus KA	QMP18200KA-A Fireball Plus KA	QM320400CX-A Fireball CX
DISK/TREND GROUP	6	6	6	6	7
PLATFORM	Desktop	Desktop	Desktop	Desktop	Desktop
MARKET	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST	OEM, DIST
MEDIA: Disk diameter	130 mm	130 mm	95 mm	95 mm	95 mm
Recording medium	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Substrate	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
DRIVE: Heads	MR Thin Film	MR Thin Film	MR Thin Film	MR Thin Film	GMR Thin Film
Interface	Ultra DMA/33	Ultra DMA/33	Ultra DMA/66	Ultra DMA/66	Ultra DMA/66
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 12,720	F: 19,292	F: 13,600	F: 18,200	F: 20,553
REMOVABLE	--	--	--	--	--
Data surfaces per spindle	4	6	6	8	6
Tracks per surface	15449	15449	13889	13889	
Track density (TPI)	12000	12000	13700	13700	
Maximum linear density (BPI) (FCI)	205458 218299	205458 218299	241000	241000	
Areal density (Gb/square inch)	2.465	2.465	3.302	3.302	
Recording code	16,17 PRML	16,17 PRML	16,17 PRML	16,17 PRML	
Rotational speed (RPM)	4000	4000	7200	7200	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)	10.5	11.5	8.5	8.5	9.5
Average rotational delay (msec)	7.5	7.5	4.17	4.17	5.6
Average access time (msec)	18.0	19.0	12.67	12.67	15.1
Data transfer rate (MBytes/sec) Internal, min/max External	12.6/21.0 16.6 P104/DMA2 33.3 Ultra DMA2	12.6/21.0 16.6 P104/DMA2 33.3 Ultra DMA2	--/29.4 16.6 P104/DMA2 66.6 Ultra DMA4	--/29.4 16.6 P104/DMA2 66.6 Ultra DMA4	--/30.1 16.6 P104/DMA2 66.6 Ultra DMA4
SIZE: (mm) H x W x D	25.4 x 146.1 x 203.2	25.4 x 146.1 x 203.2	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	10/98	10/98	1099	1099	4/99
COMMENTS					

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MANUFACTURER	QUANTUM	QUANTUM	QUANTUM	RAYMOND ENGINEERING	RAYMOND ENGINEERING
DRIVE	QM336400TN-LW QM336400TN-SCA Atlas 10K	QM336400KN-LW QM336400KN-SCA Atlas IV	QM336400TN-FC Atlas 10K	84300	8440
DISK/TREND GROUP	7	7	7	2	2
PLATFORM	Server	Server	Server	Server	Server
MARKET	OEM, DIST	OEM, DIST	OEM, DIST	OEM	OEM
MEDIA: Disk diameter	84 mm	95 mm	84 mm	95 mm	95 mm
Recording medium	Thin Film	Thin Film	Thin Film	Thin Film	Thin Film
Substrate	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
DRIVE: Heads	MR Thin Film	MR Thin Film	MR Thin Film	Thin Film	Ferrite
Interface	SCSI Ultra2/160	SCSI Ultra2/160	FC-AL	SCSI	SCSI
CAPACITY/RECORDING DENSITY					
Total capacity (Mbytes) FIXED	F: 36,400	F: 36,400	F: 36,400	--	--
REMOVABLE	--	--	--	F: 306	F: 40.55
Data surfaces per spindle	24	16	24	9	8
Tracks per surface	10458	13846	10458	1231	450
Track density (TPI)	13600	13700	13600	2075	850
Maximum linear density (BPI) (FCI)	254000	249000	254000	46227 30818	17000 17000
Areal density (Gb/square inch)	3.454	3.411	3.454	.096	.014
Recording code	24,25 PRML	24,25 PRML	24,25 PRML	2,7 RLL	MFM
Rotational speed (RPM)	10000	7200	10000	3688	3637
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)	5.5	7.9 RD	5.5	25	115
Average rotational delay (msec)	3.0	4.17	3.0	8.1	8.3
Average access time (msec)	8.5	12.07	8.5	33.1	123.3
Data transfer rate (MBytes/sec) Internal, min/max External	26.9/39.4 160 synch.	18.9/32.1 160 synch.	26.9/39.4 100	1.2	0.4
SIZE: (mm) H x W x D	41.4 x 101.6 x 146.1	41.4 x 101.6 x 146.1	41.4 x 101.6 x 146.1	58.4 x 106.7 x 188	58.4 x 106.7 x 188
FIRST CUSTOMER SHIPMENT	2Q99	2Q99	3Q99	1991	1987
COMMENTS				Mil-Spec ruggedized drive and electronics assembly. Removable disk drive cartridge	Mil-Spec ruggedized drive and electronics assembly. Removable disk drive cartridge

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