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Riverbed[®] Cascade[®] Product Family

Model Specifications: xx60 Cascade Appliances

	Cascade Express All-In-One Solution		Cascade Profilers								
Model	CAX-360 Series		CAP-2260 Series		CAP-4260 ^{3,6,7}			CAP-4260 ^{3,6,7} Expansion			
Configurations	L	М	н	L	м	н	CAP-4260-UI	CAP-4260-DB	CAP-4260-AN	CAP-4260-EX	CAP-4260-DP
Flow Capacity (Flows per Minute) ⁸	25,000	50,000	75,000	100,000	200,000	500,000	N/A	N/A	800,000	400,000	N/A
Disk Capacity ¹		4 TB			12 TB		2 TB	2 TB	24 TB	24 TB	2 TB
Optional Fibre Channel SAN											
Support (with purchase of CAP-FC-SAN)	-			\checkmark		-	-	~	~	-	
RAID	RAID 1 / RAID 10		RA	AID 1 / RAID	10	RAID 1	RAID 1	RAID 1 / RAID 10	RAID 1 / RAID 10	RAID 1	
Front-Swappable Disks⁵	4			12		2	2	12	12	2	
RAM	16 GB			32 GB		32 GB					
Serial Port (9-pin	✓			1		\checkmark		/			
D-subminiature connector)	•										
Available Sensor Ports	4-port copper (built-in), 2-port 10G Fiber LR ⁹ , 2-port 10G Fiber SR ⁹			-		-					
Primary Cascade Management Port ² (10/100/1000 RJ45)	\checkmark		\checkmark			✓ ✓		/			
Flow as Data Source (Accepts NetFlow V1, V5, V7, V9, IPFIX, sFlow V2, sFlow V5, cFlow, Packeteer FDR, Cascadeflow, Cascadeflow-compatible)	~					Require	s Cascade Gate	way			

	Cascade Gateways					
Model	CAG-2260 Series ^{4, 10}					
Configurations	F1 F2 F3 F4 F5					
Flow Capacity (Flows per Minute) ⁸	100,000 200,000 500,000 800,000 1				1,400,000	
Disk Capacity ¹			2 TB			
Optional Fibre Channel SAN Support (with purchase of CAP-FC-SAN)		-				
RAID	RAID 1					
Front-Swappable Disks ⁵	2					
RAM	8 GB					
Serial Port (9-pin D-subminiature connector)	\checkmark					
Primary Cascade Management Port ² (10/100/1000 RJ45)	\checkmark					
Flow as Data Source (Accepts NetFlow V1, V5, V7, V9, IPFIX, sFlow V2, sFlow V5, cFlow, Packeteer FDR, Cascadeflow, Cascadeflow-compatible)	\checkmark					

1. Raw Disk Capacity does not not take into account disk formatting, RAID overhead, software installation, or OS usage

2.1000/Full connection required in some configurations 3. CAP4260 system includes-CAP4260-UI, CAP4260-DB, and CAP4260-AN, plus one or more CAP-4260-EX expansion modules (for a maximum of seven).

Each additional CAP-4260-EX adds 400K FPM. CAP-4260-DP is required with addition of fifth CAP-4260-EX. 4. Each Gateway model can report to up to two Cascade Profilers and forward flow to two third-party flow collectors

5. Hot swappable disks

6. CAP4260-AN/EX equipped with RAID 1 / RAID 10 (24TB); CAP4260-UI/DB equipped with RAID 1 (2TB)

7. CAP4260-AN/EX equipped with 12 Front-Swappable Disks; CAP4260-UI/DB equipped with 2 Front-Swappable Disks 8. Flow capacity can be expanded up to the amount listed.

9. Requires compatible SFPs

10. Each Gateway can forward data to two Profilers and send rawflows to two third party devices capable of receiving flow.

Model Specifications: Cascade Sensors

Model	CAS-2260 Series				
Monitor Port Type	Built-in copper	10G Fiber LR ¹	10G Fiber SR ¹		
Monitor Port Speed / Connector	10/100/1000/RJ45 (built-in)	10GB/LC, Single mode Fiber (Requires SMF cables)	10GB/LC, Multimode Fiber (Requires 62.5/125 multimode fiber cables)		
Number of Monitor Ports	4	4 2			
Reporting Capacity	Unit can report to up to two Cascade Profilers				
Disk Capacity ¹	2 TB				
RAID	RAID 1				
Front-Swappable Disks	2				
RAM	8 GB				
Serial Port (9-pin D-subminiature connector)	\checkmark				
Primary Cascade Management Port ² (10/100/1000 RJ45)	\checkmark				

1. Requires appropriate SFPs

2.1000/Full connection required in some configurations

Model Specifications: Cascade Sensors Virtual Edition for RSP

Model	CAS-VE				
Steelhead	SH250(L/M/H)	SH520(L/M/H) SH550(L/M/H)	SH1050(L/M/H) SH1020(L/M/H) SH1520(L/M/H) SH2020(L/M/H) SH2050(L/M/H)		
Memory Required	256 MB 512 MB		512 MB		
Reporting Capacity		Unit can report to up to one Cascade Profiler			
Disk Space Required		12 GB			
SPAN monitoring of LAN traffic at the branch ¹	\checkmark				
Monitor SH LAN/WAN traffic	\checkmark				

1. via SH aux port

Power & Physical Specifications

Model	CAX-360 Series, CAG-2260 Series, CAS-2260 Series, CAP-4260-UI/DB/DP	CAP-2260 Series, CAP-4260-AN/EX		
Dual Power Supplies (Redundant, 750 Watt)	~	~		
Power [Watts] (Typical)	300	420		
BTU	1024	1433		
Temperature ¹		95 deg F (Operating) - 149 deg F (Storage)		
Relative Humidity	20% - 80% non-condensing (Operating) 5% - 95% non-condensing (Storage)			
Operating Acoustic noise (Typical)	61.6 dBA	65.6 dBA		
Rack Size	10	20		
System Dimensions (LxWxH) ²	25.4x17.2x1.7 in 644.4.4x436.1x43.4 mm	25.4x17.2x3.4 in 644.4x436.1x87.1 mm		
Packaging Dimensions	36.25x23.38x12.5 in 920.8x593.7x317.5 mm			
Max Weight (without packaging)	36 Lbs/16.36 Kg 60 Lbs./27.26 Kg			
Rail Information	Mounting rail kit inlcuded. Orderable spare part RMK-002			
RoHS Compliant	\checkmark			

1. Operating altitude up to 10,000 feet

2. Length is without bezel, rack ears, cables

The availability, export or re-export of these products or specific features are subject to the export laws and regulations of the U.S. and the laws and regulations of any applicable foreign agency or authority.

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Model Specifications: Cascade Shark

	1000 Series	2000	2000 Series		Series
Model	CSK-01000	CSK-02100	CSK-02200	CSK-03100	CSK-03200
Storage	4 TB	8 TB	16 TB	16 TB	32 TB
Capture Disk Capacity ¹	4 x 1 TB	8 x 1 TB	8 x 2 TB	16 x 1 TB	16 x 2 TB
Operating System Disk Capacity ¹			500 GB		
Operating System			Customized Linux-based OS	;	
DVD-ROM	Yes				
RAID	H/W RAID level 0			2x H/W RAID level 0 + S/W RAID level 0	
Front-Swappable Disks	4 8		3	16	
RAM (GB)	6	1	2	24	4
Available Network Interface Card Slots	1 2				
Available Capture Ports (max) ²	2 x 1GbE (Copper) OR 4 x 1GbE (Copper)		8 x 1GbE (Copper) OR 4 x 10GbE ports (Fiber) OR 4 x1Gbe (Copper) + 2 x 10GbE (Fiber)		
Management Port (10/100/1000 RJ45)			2		

1. Raw Disk Capacity does not not take into account disk formatting, RAID overhead, software installation, or OS usage

2. Supported NICS's- 1GbE dual-port copper (on 1100 only); 1GbE-quad port copper, 10GbE-dual port Fiber ports are available with SR and LR SFP (LC connectors).

Power & Physical Specifications: Cascade Shark

	1000 Series	2000 Series	3000 Series		
Dual Power Supplies (Redundant)	No	Yes	Yes		
Line Power Requirement	100-240 VAC 9-4A 50-60Hz		100-240 VAC 9A-4A 50-60Hz		
Operating Temperature ¹		10°to 35°C (50°to 95°F)			
Operating Relative Humidity	8% to 90% (non-condensing)				
Rack Size	1U	20	3U		
System Dimensions (LxWxH) ²	25.6"x17.2"x1.7"	25.5"x17.2"x3.5"	25.5"x17.2"x5.2"		
Packaging Dimensions (LxWxH) ³	36.5″x25.5″x12.5″	36.5"x25.5"x12.2"	39″x27″x20″		
Max Weight (without packaging) ⁴	34 Lbs.	57 Lbs.	88 Lbs.		
Rail Information ⁵	RMK-CSK-0001	RMK-CSK-0002	RMK-CSK-0003		
RoHS Compliant		Yes			

1. Operating altitude up to 10,000 feet

2. Length is without bezel, cables 3. ackaging dimensions do not include the pallet on which the unit might be shipped.

4. Weight includes the rails.

5. The included rails fit square hole and un-threaded round hole racks The availability, export or re-export of these products or specific features are subject to the export laws and regulations of the U.S. and the laws and regulations of any applicable foreign agency or authority.

System Requirements: Cascade Pilot

	Cascade Pilot
Operating System ¹	Windows XP, Windows Vista, and Windows 7 (32 bit/64 bit, Home, Premium, Enterprise, Professional, Ultimate)
CPU	Dual-core 2.0 GHz CPU or better
Memory	2 GB RAM
Disk Space	300MB free disk space, plus additional storage for trace files, reports & logs
Video	Graphics card with minimum resolution of 1024 x 768

1. Administrator rights required for installation and operation

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About Riverbed

Riverbed delivers performance for the globally connected enterprise. With Riverbed, enterprises can successfully and intelligently implement strategic initiatives such as virtualization, consolidation, cloud computing, and disaster recovery without fear of compromising performance. By giving enterprises the platform they need to understand, optimize and consolidate their IT, Riverbed helps enterprises to build a fast, fluid and dynamic IT architecture that aligns with the business needs of the organization. Additional information about Riverbed (NASDAQ: RVBD) is available at www.riverbed.com.







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199 Fremont Street San Francisco, CA 94105 Tel: +1 415 247 8800 Fax: +1 415 247 8801 www.riverbed.com Riverbed Technology Ltd. One Thames Valley Wokingham Road, Level 2 Bracknell RG42 1NG United Kingdom Tel: +44 1344 401900

Riverbed Technology Pte. Ltd. Riverbed Technology K.K.

391A Orchard Road #22-06/10 Ngee Ann City Tower A Singapore 238873 Tel: +65 6508-7400 Riverbed Technology K.K. Shiba-Koen Plaza Building 9F 3-6-9, Shiba, Minato-ku Tokyo, Japan 105-0014 Tel: +81 3 5419 1990

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