

Riverbed® Cascade®

Model Specifications: Riverbed Cascade Appliances

Model	Cascade Express All-In-One Solution						Cascade Profilers				Cascade Gateways			
	CAX-100 Series		CAX-200 Series		CAX-300 Series		CAP-2100 Series			CAP-4100 ^{1,6,7}	CAG-2100 Series ⁴			
Configurations	2SX	2TX	2SX	2TX	2SX	2TX	2120	2140	2160		F1	F2	F3	F4
Flow Capacity (Flows per Minute) ¹	25,000		50,000		75,000		100,000	200,000	500,000	800,000	100,000	200,000	500,000	800,000
Disk Capacity ¹	1 TB						2 TB	6 TB	6 TB	6 TB	500 GB			
Optional Fibre Channel SAN Support (with purchase of CAP-FC-SAN)	✓		✓		✓		✓				-			
RAID	RAID 1		RAID 1		RAID 1		RAID 1	RAID 1 (2 TB) RAID 5 (4 TB)	RAID 1 (2 TB) RAID 5 (4 TB)	RAID 1 (2 TB) RAID 5 (4 TB)	-			
Front-Swappable Disks ²	2		2		2		2	6	6	6	1			
RAM	8 GB		8 GB		8 GB		8 GB	8 GB	16 GB	16 GB	2 GB			
Remote Chassis Management Port (10/100 RJ45)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Available 1 GbE Sensor Ports	2 Fiber	2 Copper	2 Fiber	2 Copper	2 Fiber	2 Copper	-							
Cascade Management Port2 (10/100/1000 RJ45)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Flow as Data Source (Accepts NetFlow V1, V5, V7, V9, IPFIX, sFlow V2, sFlow V5, cFlow, Packeteer FDR, Cascadeflow, Cascadeflow-compatible)	✓	✓	✓	✓	✓	✓	Requires Cascade Gateway				✓			

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

2 1000/Full connection required in some configurations

3 CAP4100 system includes-CAP4120, CAP4130, CAP4110 (Max8). Each additional CAP-4110 adds 400K FPM

4 Reporting Capacity (Gateway)- Unit can report to up to two Cascade Profilers and five third party flow collectors

5 Hot swappable disks

6 CAP4110 equipped with RAID 1 (2TB), RAID 5 (4TB); CAP4120/4130 equipped with RAID 1 (2TB)

7 CAP4110 equipped with 6 Front-Swappable Disks; CAP4120/4130 equipped with 2 Front-Swappable Disks

8 Flow capacity can be expected up to the amount listed.

Model	Cascade Sensors					
	CAS-2100 Series					
Configurations	2TX	4TX	2SX	4SX	2SR	2LR
Monitor Port Type	Copper		Multimode Fiber (Requires 62.5/125 multimode fiber cables)			Single mode Fiber (Requires SMF cables)
Monitor Port Speed / Connector	10/100/1000/RJ45		1GB/LC	10GB/LC	10GB/LC	
Number of Monitor Ports	2	4	2	4	2	2
Reporting Capacity	Unit can report to up to five Cascade Profilers					
Disk Capacity ¹	500GB					
RAID	-					
Front-Swappable Disks	1					
RAM	2GB					
Remote Chassis Management Port (10/100 RJ45)	✓					
Cascade Management Port2 (10/100/1000 RJ45)	✓					

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

Model	Cascade Sensors Virtual Edition for RSP		
	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	260MB	512MB	512MB
Reporting Capacity	Unit can report to up to one Cascade Profiler		
Disk Space Required	12GB		
SPAN monitoring of LAN traffic at the branch*	✓		
Monitor SH LAN/WAN traffic	✓		

*via SH aux port

Power & Physical Specifications

All Cascade Models and Configurations	
Dual Power Supplies (Redundant, 750 Watt)	✓
Line Power Requirement	100V-127V, 50/60 Hz, 11A or 200V-240V, 50/60Hz, 5.5A
System Cooling Requirement	3264 BTU/Hour
Temperature*	10° to 35° C / 50° to 95° F (Operating) -40° to 70° C / -40° to 158° F (Storage)
Relative Humidity	8% to 80%, non-condensing (Operating) 90%, non-condensing @ 28°C (Storage)
Operating Acoustic noise	55 dba, 7.0 BA (Typical)
Rack Size	2U
System Dimensions (LxWxH)**	27.8 x 17.8 x 3.4 in (705 x 451 x 87 mm)
Packaging Dimensions	36 x 26 x 16 in
Max Weight (without packaging)	65 lbs.
Rail Information	Tool-less rail kit included fits square and round hole racks (Orderable spare part RMK-CAP-001)
RoHS Compliant	✓

*Operating altitude up to 10,000 feet

** Length is without bezel, cables

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About Riverbed

Riverbed Technology is the IT performance company. The Riverbed family of wide area network (WAN) optimization solutions liberates businesses from common IT constraints by increasing application performance, enabling consolidation, and providing enterprise-wide network and application visibility – all while eliminating the need to increase bandwidth, storage or servers. Thousands of companies with distributed operations use Riverbed to make their IT infrastructure faster, less expensive and more responsive. Additional information about Riverbed (NASDAQ: RVBD) is available at www.riverbed.com.



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