

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 (2 TB)	RAID 1 (2 TB) RAID 5 (2 TB)	RAID 1 (2 TB) RAID 5 (2 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	2SX	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	256MB	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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