

Riverbed® Steelhead® Product Family

Model Specifications: Riverbed Steelhead xx50 Series Appliances

Steelhead Appliances are available in four different models to suit the needs of any office.

Model	Small Office			Mid-Size Office			Large Office or Data Center					Management				
	250 Series			550 Series		1050 Series			2050 Series			5050 Series		6050	INT 9350	CMC 8000/ SMC 8500
Configurations	L	M	H	M	H	L	M	H	L	M	H	M	H			
Profile	Desktop					1U			1U			3U		3U	3U	1U
WAN Capacity ¹	1 Mbps	1 Mbps	2 Mbps	2 Mbps	4 Mbps ²	6 Mbps	8 Mbps ²	10 Mbps	45 Mbps ²	45 Mbps	45 Mbps	90 Mbps	155 Mbps	310 Mbps	12 Gbps	N/A
WAN Capacity (High-speed) ¹	1 Mbps	1 Mbps	2 Mbps	2 Mbps	4 Mbps	6 Mbps	8 Mbps	10 Mbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	-	-
Optimized TCP Connections ²	30	125	200	300	600	800	1,300	2,300	2,500	4,000	6,000	9,000	18,000	50,000	1,000,000	-
Raw Capacity	120 GB	120 GB	120 GB	160 GB	160 GB	250 GB	250 GB	500 GB	1 TB	1 TB	1 TB	2 TB	3 TB	8 TB	-	250 GB
Data Store Capacity	40 GB	40 GB	40 GB	80 GB	80 GB	100 GB	100 GB	200 GB	400 GB	400 GB	400 GB	600 GB	800 GB	3.5 TB	-	N/A
RSP Partition ^{3,4}	55 GB	55 GB	55 GB	55 GB	55 GB	100 GB (Default) 200 GB (RAID)	100 GB (Default) 200 GB (RAID)	200 GB	75 GB	75 GB	75 GB	100 GB ⁵	150 GB ⁵	150 GB ⁵	-	-
Riverbed Services Platform (RSP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-
Steelhead Mobile Controller Virtual Edition (SMC-VE)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-
RAID	-					Optional			✓	✓	✓	✓	✓	✓	✓	✓
Front Swappable Disks	-					1 (default) 4** (RAID)	1 (default) 4** (RAID)	2 (default) 4** (RAID)	4**	4**	4**	8**	12**	16**	3**	-
RAM ^{6,7}	1 GB		2 GB			2 GB	2 GB	4 GB	6 GB			8 GB		24 GB	8 GB	2 GB
Expansion Slots (PCI-e)*	-					1			1			4		4	4	-
Onboard Bypass ports (Copper)	-					2			4			4		4	4	-
Max # of Bypass Ports	-					2			8			8		20	20	-

¹ Option Bypass cards - Dual/Quad, Fiber/Copper GbE
² Hot swappable disks

^{3,4} Raw disk capacity allocated to the RSP partition. About 7GB is used by RSP package and filesystem.
Partner packages need additional storage (based on the size of the package)
⁵ RSP requires additional 2GB of memory, 6050 requires 4GB

⁶ No PFS support
⁷ Bandwidth settings listed for the SHA250H, SHA550H, SHA1050M and the SHA2050L require minimum RIOS versions of 5.5.3 for the 5.5 release series or 5.0.8 for the 5.0 release series

Power & Physical Specifications

Model	Small Office		Mid-Size Office		Large Office or Data Center			Management										
	250 Series		550 Series		1050 Series		2050 Series		5050 Series		6050	INT 9350	CMC 8000/ SMC 8500					
Dual Power Supplies	-		-		(Optional)			✓		✓		✓	✓	-				
Power [Watts] (Typical)	62.5		66.5		138		151		197		203		225	352	320	206		
BTU	213		227		471		515		672		693		768	1201	1091	646		
Temperature	0 - 45 deg C / 32 - 113 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage)				10 - 40 deg C / 50 - 95 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage)						10 - 35 deg C / 50-95 deg F (Operating) -40-70 deg C / -40-158 deg F (Storage)							
Relative Humidity ⁴	20% - 80% non-condensing (Operating) 5% - 95% non-condensing (Storage)																	
Operating Acoustic Noise	45 dBA Sound Pressure (Typical)				61 dBA Sound Pressure (Typical)				61 dBA Sound Pressure (Typical)				Same as models 520 - 2020					
System Dimensions (LxWxH) ⁵	12 x 7.1 x 1.65 in 304.8 x 180.3 x 42 mm				25.4 x 17.2 x 1.71 in 645.4 x 436 x 43.5 mm				25.72 x 17.0 x 5.2 in 653.4 x 431.6 x 131.9 mm				1.69 x 17.6 x 21.5 in (4.27 x 44.7 x 54.62)					
Packaging Dimensions	24.5 x 12 x 4 in 622 x 305 x 102 mm				33.6 x 22.9 x 8.6 in 854 x 582 x 219 mm				34.1 x 23.7 x 15.9 in 866 x 602 x 403 mm				13 x 25 x 35 in (33 x 64 x 89)					
Max Weight (without packaging)	4.7 Lbs / 2.15 Kg				29 Lbs / 13.1 Kg		30 Lbs / 13.6Kg		35 Lbs / 15.9 Kg		59 Lbs / 26.7 Kg		64 Lbs / 29 Kg		71 Lbs / 32.2 Kg		51 Lbs / 23.2 Kg	
Rail Information	Mounting ears included. Orderable spare part RMK-001				Mounting rail kit included. Orderable spare part RMK-002				Mounting rail kit included. Orderable spare part RMK-003				Universal (2 and 4 post)					

¹Inbound (WAN to LAN) Steelhead capacity is unrestricted; outbound WAN capacity can be expected up to the amount listed (On the 5050, 6050 total WAN capacity equals inbound traffic + outbound traffic)

²Any Steelhead model can be clustered
³Operating altitude up to 10,000 feet
⁴Depth is without bezel

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.

⁵TCP Connections can be expected up to the amount listed

Please refer to the xx20 appliances spec sheet for specifications on the other models.

System Requirements: Steelhead Mobile

Steelhead Mobile software optimizes application performance over the WAN for the mobile workforce.

Operating System	Windows 2000 SP4, XP SP2 (32 bit versions only), Vista (32 bit and 64 bit versions), Windows 7 (32 bit and 64 bit versions)
CPU	Celeron 650 MHz
Memory	256 MB
Disk Store	256 MB free disk space (min. required)
Steelhead Appliance ^a	Required
Steelhead Mobile Controller (SMC)	Required: Either Steelhead Mobile Controller Appliance or Steelhead Mobile Controller Virtual Edition

Software Specifications: Steelhead Mobile

Concurrent Clients Supported per SMC	4000 (SMC-Appliance) / 100 (SMC-Virtual Edition)
Concurrent Clients Supported with SMC Cluster ^b	n x 4000 ^b
VPN Compatibility ^a	Cisco, Juniper, Nortel, OpenVPN, Microsoft, Aventail, Citrix, AT&T Netclient, Array, Check Point, F5, Sonicwall, Fortinet, WatchGuard
Wireless PC Card Compatibility ^c	Verizon, AT&T, Sprint

^aAt least one Steelhead appliance is required running RiOS version 4.x or higher

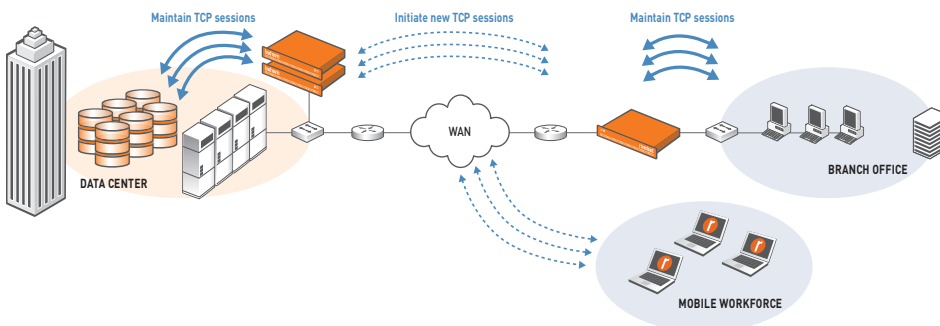
^bSMCs can operate in clustered mode to support additional Steelhead Mobile Clients

^cPartial listing. VPN compatibility may be impacted by vendor software version, client configuration, and other factors. Refer to detailed VPN specifications at: http://www.riverbed.com/products/steelhead_mobile/vpn_specs/ for more information

^dPartial listing. Wireless PC Card compatibility may be impacted dependent upon hardware and driver versions, bundled software and other factors. Refer to detailed wireless specifications at http://www.riverbed.com/products/steelhead_mobile/wireless/ for more information

^eFor large-scale deployments the SMC's upgrade mechanism should not be used for over 2000 clients

Typical Steelhead Deployment



About Riverbed

Riverbed Technology is the IT infrastructure 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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Riverbed Technology

199 Fremont Street
San Francisco, CA 94105
Tel: +1 415 247 8800
Fax: +1 415 247 8801
www.riverbed.com

Riverbed Technology Ltd.

Farley Hall, London Road
Binfield
Bracknell
Berkshire RG42 4EU
Tel: +44 (0) 1344 401900

Riverbed Technology Pte. Ltd.

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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