

SteelHead™

SteelHead CX 90 Series

Model Specifications

SteelHead Family

- · SteelHead Appliances
- · SteelHead Virtual
- · SteelHead Interceptor
- · SteelHead Mobile
- · SteelHead Cloud
- · SteelHead RS
- · Flex Subscription for SteelHead

Deployment	Branc	h/Edge	Data Center		
Model	CXA-02090	CXA-04090	CXA-06090	CXA-8090	
Profile	Desktop	10	2U	2U	
Optimized TCP Connections and UDP Flows	10,000	30,000	150,000	220,000	
Optimized WAN Capacity ^{1,2}	200 Mbps	500 Mbps	2 Gbps	6 Gbps	
Management Storage Capacity	960 GB	960 GB	960 GB	960 GB	
Data Store Capacity	400 GB	800 GB	3.2 TB	6.4 TB	
Storage Fault Tolerance (Management and Data Store)	No	Yes	Yes	Yes	
Hot Swappable Drives (Management)	No	Yes	Yes	Yes	
Hot Swappable Drives (Data Store)	No	No	Yes	Yes	
RAM	24 GB	32 GB	128 GB	256 GB	
Expansion Slots (PCI-e) ²	No	1 FH 3/4L (Gen4x16)	3 FHFL, 1 FHHL (Gen5)	3 FHFL, 1 FHHL (Gen5)	
Bypass Port Speed Options	1G (copper)	1G (copper, fiber LX/SX) 10G (fiber LR/SR)	1G (copper, fiber LX/SX) 10G / 40G (fiber LR/SR)	1G (copper, fiber LX/SX) 10G / 40G / 100G (fiber LR/SR)	
Included Bypass Ports (Copper)	4 GE (2 pairs)	4 GE (2 pairs)	4 GE (2 pairs)	4 GE (2 pairs)	
Max. # of Bypass Ports	4	8	20	20	
Included Non-Bypass Ports	4 x 1GE SFP+ 4 x 10GE SFP+	4 x 1GE SFP+ 4 x 10GE SFP+	No	No	
Console	RJ45	RJ45	RJ45	RJ45	
BMC/IPMI ³ , PRI ³ , AUX ³	RJ451×1G,2×1G/2.5G	RJ451×1G,2×1G/2.5G	RJ45 1x 1G, 2 x 1G/10G	RJ451×1G,2×1G/10G	

^{1.} With perpetual license and standard subscription. Optimized WAN capacity limit is enforced on outbound optimized traffic. Inbound optimized WAN traffic is not capped.

NOTE: All WAN capacities, connections, flows and rules/classes specifications listed are maximums and may not be achieved simultaneously and/or in all environments.

Power and Physical Specifications

Deployment	Branc	h/Edge	Data Center		
Model	CXA-02090	CXA-04090	CXA-06090	CXA-8090	
Dual Power Supplies	No	Yes	Yes	Yes	
	1x External, 180W Power Brick	2x500W	2x1300W	2x1300W	
Input Power	100-127VAC	100-127VAC	100-127VAC	100-127VAC	
	200-240VAC	200-240VAC	200-240VAC	200-240VAC	
Power [Amps] (Max)	0.98A @ 120VAC	With 120VAC: 1.30	With 120VAC: 4.6	With 120VAC: 6.0	
	0.49A @ 230VAC	With 230VAC: 1.28	With 230VAC: 2.4	With 230VAC: 3.1	
Power [Watts] (Max)	118W @ 120VAC	With 120VAC: 156W	With 120VAC: 560W	With 120VAC: 714W	
	112W @ 230VAC	With 230VAC: 153W	With 230VAC: 542W	With 230VAC: 723W	
Power [Watts] (Typical)	94W @ 120 VAC	With 120VAC: 124W	With 120VAC: 448W	With 120VAC: 572W	
	89W @ 230VAC	With 230VAC: 122W	With 230VAC: 434W	With 230VAC: 579W	
Power [VA] (Max)	124VA @ 120VAC	With 120VAC: 159	With 120VAC: 572	With 120VAC: 772	
	133VA @ 120VAC	With 230VAC: 155	With 230VAC: 554	With 230VAC: 730	
Power Factor	0.98	0.99	0.98	0.99	
Power Supply Efficiency Rating	N/A	80 Plus Platinum	80 Plus Titanium	80 Plus Titanium	
BTU	403 BTU @ 120VAC	With 120VAC: 531	With 120VAC: 1528	With 120VAC: 1949	
	381 BTU @ 230VAC	With 230VAC: 522	With 230VAC: 1480	With 230VAC: 1973	
Temperature ¹	0-45°C /32-113°F	0-45°C/32-113°F	10-40°C / 50-104°F (Operating) ⁴ -40-60°C / -40-140°F (Storage) ⁵	10-40°C / 50-104°F (Operating) ⁴ -40-60°C / -40-140°F (Storage) ⁵	
Relative Humidity ²	10-90%, non-condensing (Operating) 5-95%, non-condensing (Storage)	10-90%, non-condensing (Operating) 5-95%, non-condensing (Storage)	40-90%, non-condensing at 40°C	40-90%, non-condensing at 40°C	
Operating Acoustic Noise (Typical)	<60 dB	<60 dB	<60 dB	<60 dB	
System Dimensions (WxDxH)	8.6 x 11.9 x 1.72 in	16.9 x 13.0 x 1.72 in	27.56 x 17.32 x 3.43 in	27.56 x 17.32 x 3.43 in	
Excluding Rack Ears and Handles	218 x 302.1 x 43.8 mm	430 x 330.2 x 43.8 mm	700 x 440 x 87 mm	700 x 440 x 87 mm	
Dimension (system) (WxDxH) Including Rack Ears and PSU Tab Protrusions	8.6 x 12.3 x 1.72 in 218 x 313.3 x 43.8 mm	19.0 x 14.1 x 1.72 in 482.4 x 359 x 43.8 mm	19.0 x 28.75 x 3.44 in 482.6 x 730.3 x 87.4 mm	19.0 x 28.75 x 3.44 in 482.6 x 730.3 x 87.4 mm	
Packaging Dimensions (WxDxH)	13 x 16.3 x 6.7 in	22.8 x 18.9 x 6.9 in	36 x 24 x 12 in	36 x 24 x 12 in	
	329 x 414 x 171 mm	580 x 480 x 175 mm	914.4 x 609.6 x 304.8 mm	914.4 x 609.6 x 304.8 mm	
Weight	6.31 lbs.	15.9 lbs.	51 lbs.	51 lbs.	
(Without Packaging)	2.875 kg	7.2 kg	23 kg	23 kg	
Rail Information	Rack mount kit included	Rack mount kit included Rail kit optional	Rail kit included	Rail kit included	

^{2.} Restrictions apply in combination of card types. Please see technical documentation for details.

^{3.} Can also support speeds of 10M/100M.

SteelHead CX 80 Series

Model Specifications

Model		CX580 Series			CX780 Series			CX3080 Series			
Software Configuration (RiOS)	Essentials	Standard	Enterprise	Essentials	Standard	Enterprise	Turbo Standard	Turbo Enterprise	Essentials	Standard	Enterprise
Profile				Des	ktop					1U	
License Upgrade Path	Standard / Enterprise	Enterprise	Already at Enterprise	Standard / Enterprise	Enterprise	Already at Enterprise	Turbo Enterprise	Already at Enterprise	Standard / Enterprise	Enterprise	Already at Enterprise
Optimized TCP Connections and UDP Flows		2,500 5,500			14,000						
Optimized SSL/TLS Connections		2,500 5,500				14,000					
Optimized WAN Capacity ¹		50 Mbps		100 Mbps 200 Mbps			Mbps	200 Mbps			
Network Services - WAN Capacity ²						1,000 Mbps			'		
Data Store Capacity				200 G	BSSD				400 GB SSD		
Web Proxy Cache Capacity		150 GB		250 GB			350 GB				
Storage Fault Tolerance				Not sup	pported				RAID		
Hot Swappable Drives				Not sup	pported					2	
RAM	10			16	16 GB			24 GB			
Expansion Slots (PCI-e) ³				0			1				
Included Bypass Ports (Copper)		4									
Max. # of Bypass Ports				4	4					8	

- 1. With perpetual license and standard subscription. Optimized WAN capacity limit is enforced on outbound optimized traffic. Inbound optimized WAN traffic is not capped.
- 2. Using 1 Gbps on-board interface.
- ${\tt 3.} \quad {\tt Restrictions\,apply\,in\,combination\,of\,card\,types.\,Please\,see\,technical\,documentation\,for\,details.}$

NOTE: All WAN capacities, connections, flows and rules/classes specifications listed are maximums and may not be achieved simultaneously and/or in all environments.

SteelHead CX 80 Series

Power and Physical Specifications

Model	CX580 Series	CX780 Series	CX3080 Series	
Dual Power Supplies	N	lo	Yes	
Power [Watts] (Typical)	37W	60W	70W	
Power Supply Efficiency Rating	80 Plu	s Gold	80 Plus Platinum	
BTU	128	205	242	
Temperature ¹				
Relative Humidity ²		20%-80%, non-condensing (Operating) 10%-95%, non-condensing (Storage) ³		
Operating Acoustic Noise (Typical)		45 dBA		
System Dimensions (LxWxH)		.75 x 1.73 in 9.25 x 44 mm	15.25 x 17.24 x1.73 in 387.35 x 483 x 44 mm	
Packaging Dimensions	17.7 × 12.2 × 7 in 450 × 310 × 180 mm		36 x 24 x 13 in 914.4 x 609.6 x 330.2 mm	
Weight (Without Packaging)	6 lbs. 2.7 kg		27 lbs. 12.25 kg	
Rail Information	Rack mount Orderable Spare Par	Rack mount kit included Orderable Spare Part Numbers: RMK-4-3080		

- 1. In China for use in non-tropical locations.
- 2. Operating altitude up to 10,000 feet except in China 6,562 feet (2,000 m).
- Max dew point of 21°C / 69.8°F.
- 4. Maximum wet bulb of 28°C / 82.4°F (at temperatures from 25-35°C / 77 95°F).

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

Feature Tiers: SteelHead CX-580/CX-780/CX-3080 and SteelHead Virtual

	Essentials	Standard	Enterprise
Description	Basic WAN Optimization	Full WAN Optimization with App Acceleration	Full Featured App Acceleration + Next Gen Features
Sample Features	Full Deduplication TCP Optimization / MXTCP Hybrid Networking: QOS / Secure Transport / Path Selection	Essentials + HTTPS Optimization Most Protocol Blades (MAPI, SMB 2/3, CIFS) Web Proxy SteelHead Mobile Secure Protocols Optimization (TLS/SSL, Encrypted / Signed SMB)	Standard + Data Center Protocol Blades (Replication, NFS) SCPS / FIPS

SteelHead CX 80 Series

Model Specifications

Model	CX5080	O Series		CX7080 Series		
Hardware Configuration / License	CXA-05080-B010 / L25	CXA-05080-B010 / L26	CXA-07080-B010 / L30	CXA-07080-B010 / L30		
Profile			2U			
License Upgrade Path	L26	Already at L26	-B020 / L31 or -B030 / L32 ²	-B030 / L32 ²	Already at B030 / L32	
Optimized TCP Connections and UDP Flows	20,000	60,000	100,000	150,000	220,000	
Optimized SSL / TLS Connections	20,000	60,000	100,000	150,000	220,000	
Optimized WAN Capacity ¹	300 Mbps	622 Mbps	1,000 Mbps	2,000 Mbps	3,000 Mbps	
Network Services - WAN Capacity	Unrestricted					
Network Services - Flows ³	160,	000	320,000	480,000	800,000	
Network Services - Rules/Classes			6,000			
Data Store Capacity	1.4	ТВ	2.8 TB	3.8 TB	7.6 TB	
Web Proxy Cache Capacity	300	GB		500 GB		
Storage Fault Tolerance			RAID ⁴			
Hot Swappable Drives		6 SSDs + 2 HDDs		8 SSDs	+ 2 HDDs	
RAM	32	GB	64 GB	96 GB	192 GB	
Total # of Expansion Slots (PCI-e)	Up to 4 FHF	L + 2 FHHL ⁵		Up to 4 FHFL+1 FHHL +1 HHHL⁵		
Included # of Bypass Ports (10 / 100 / 1000 Copper)			4			
Max. # of Bypass Ports 40 GbE / 10 GbE / 1 GbE			4x40 GbE / 16x10 GbE / 24x1 GbE ⁵			

- 1. With perpetual license and standard subscription. Optimized WAN capacity limit is enforced on outbound optimized traffic. Inbound optimized WAN traffic is not capped.
- 2. Requires exchange of appliance device (UPC-CXA-07080).
- 3. Inclusive of all optimized and/or managed flows.
- 4. RAID1 configuration for HDD. Datastore uses fault tolerant striped (FTS) configuration for SSD.
- 5. Restrictions apply in combination of card types. Please see technical documentation for details.

NOTE: All WAN capacities, connections, flows and rules/classes specifications listed are maximums and may not be achieved simultaneously and/or in all environments.

SteelHead CX 80 Series

Power and Physical Specifications

Model	CX5080) Series	CX7080 Series				
Hardware Configuration / License	CXA-05080-B010 / L25	CXA-05080-B010 / L26	CXA-07080-B010 / L30	CXA-07080-B020 / L31	CXA-07080-B030 / L32		
Dual Power Supplies			Yes				
Power [Watts] (Typical)	With 120V With 230V			/AC: 374W /AC: 364W	With 120VAC: 478W With 230VAC: 459W		
Power Supply Efficiency Rating		80 Plus Platinum					
ВТИ	With 120\ With 230		With 120° With 230°	With 120VAC: 1632 With 230VAC: 1566			
Temperature ¹	0-40°C / 32·104°F (Operating)⁴ -40-60°C / -40-140°F (Storage)⁵						
Relative Humidity ²	40-90%, non-condensing at 40°C						
Operating Acoustic Noise (Typical)		<60 dB					
System Dimensions (LxWxH)	27.56 x 17.32 x 3.43 in 700 x 440 x 87 mm						
Packaging Dimensions ³	36 x 24 x 12 in 914.4 x 609.6 x 304.8 mm						
Max Weight (Without Packaging, Without PCIE cards)	51 lbs. 23 kg						
Rail Information		Mounting Rail Kit	Included. Orderable Spare Part N	umber: RMK-4-2U			

- 1. In China for use in non-tropical locations.
- 2. Operating altitude up to 10,000 feet except in China 6,562 feet (2,000 m).
- 3. Length is without bezel.
- 4. Max dew point of 21°C / 69.8°F.

5. Maximum wet bulb of 28°C / 82.4°F (at temperatures from 25-35°C / 77 – 95°F).

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SteelHead Virtual

Perpetual or Subscription Models RiOS 9.x

Model	VCX-30	VCX-40	VCX-50	VCX-60	VCX-70	VCX-80	VCX-90	VCX-100	VCX-110
Optimized WAN Capacity	10 Mbps	25 Mbps	50 Mbps	100 Mbps	200 Mbps	500 Mbps	1,000 Mbps	2.5 Gbps	5 Gbps
Optimized TCP and UDP Flows	500	1,000	2,000	5,000	12,000	50,000	100,000	150,000	180,000
Network Services	50 Mbps	100 Mbps	250 Mbps	500 Mbps			Unrestricted		
Max Data Store Capacity	100	150	40	00	800	1,600	2,240	3,600	4,800
Management Disk	38	44	5	66	88	104	136	178	318
Maximum Web Proxy	400	GB				800 GB			
Virtual CPUs Required (Min)	2		4		6	12	24	32	44
Reserved Memory Required	4 (GB	8 (GB	24 GB	38 GB	64 GB	80 GB	128 GB

SteelHead Virtual

Model Specifications Release RiOS 10.x

Model	FLEX-25	FLEX-50	FLEX-200	FLEX-1000	FLEX-3000
Optimized WAN Capacity	25 Mbps	50 Mbps	200 Mbps	1 Gbps	3 Gbps
Optimized TCP Connections	2,0	000	12,000	100,000	150,000
Max Data Store Capacity	400	400 GB		2,240 GB	3,600 GB
Management Disk	80 GB		80 GB	80 GB	80 GB
Virtual CPUs Required (Min)	4		6	24	32
Reserved Memory Required	80	8 GB		64 GB	80 GB

Feature-tier licensing is available with RiOS version 9.9.3 and RiOS versions 9.10.1 and later. Virtual SteelHead must run RiOS version 9.9.3 or RiOS version 9.10.1 or later on a supported guest hypervisor. See Riverbed virtual products documentation for compatible hypervisors.

For information on the SteelCentral Controller for SteelHead, see the documentation for that product under the Documentation tab here: SteelHead Central Controller.

For NIC card support, see the documentation for Riverbed hardware platforms under the Documentation tab here: https://support.riverbed.com/content/support/software/steelhead/cx-appliance.html.

NOTE: All WAN capacity / bandwidth, TCP connections and UDP flows, and QoS specifications listed are maximums and may not be achieved in all environments. The WAN capacity limit is enforced on outbound optimized traffic. Inbound optimized WAN traffic is not capped.

SteelHead Interceptor

Model Physical and Power Specifications

Model	INT9800
Profile	2U
Effective LAN Throughput ¹	50 Gbps
Storage Fault Tolerance	RAID
Front Swappable Drives ²	2
RAM	48 GB
Expansion Slots (PCI-e) ³	6
Included Bypass Ports (copper)	-
Max. # of Bypass Ports	16
Max. SteelHead Cluster Size	25

All LAN capacity, bandwidth, and TCP connections listed are maximums and may not be achieved in all environments.

^{3.} Optional Network Bypass cards: Quad 10GbE SR/LR, Dual 40GbE SR/LR, Dual 100GbE SR/LR.

Model	1008етиі
Dual Power Supplies	Yes
Power [Watts] (Typical)	With 120VAC: 478W With 230VAC: 459W
Power Supply Efficiency Rating	80 Plus Platinum
BTU	With 120VAC: 1632 With 230VAC: 1566
Temperature ¹	0-40°C / 32-104°F (Operating) -40-60°C / -40-140°F (Storage)
Relative Humidity ²	40-90%, non-condensing at 40°C
Operating Acoustic Noise	<60 dB
System Dimensions (LxWxH) ³	27.56 x 17.32 x 3.43 in 700 x 440 x 87 mm
Packaging Dimensions	36 x 24 x 12 in 914.4 x 609.6 x 304.8 mm
Max Weight (Without Packaging)	51 lbs. (23 kg)
Rail Information	Mounting Rail Kit Included Orderable Spare Part Numbers: RMK-4-2U

^{1.} In China - for use in non-tropical locations.

NOTE: 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.

SteelHead Mobile

System Requirements

Model	Version 6.4.1 / Higher
Operating System	Windows 10, Windows 11,
CPU	1 GHz or Higher
Memory	8 GB
Data Store	256 MB free disk space (minimum required)
SteelHead Appliance ¹	Minimum 1 Physical (CX), Virtual (VCX) or SteelHead Cloud (CCX) needed on Server Side

Software Specification

oor tware opeomoation					
Model	Concurrent Clients ³				
SteelHead Mobile Controller ² Virtual edition	20,000				
SteelHead Mobile Controller for AWS edition	20,000				
SteelHead Mobile Controller on Microsoft Azure	35,000				
Interoperability	Third-party products				
VPN Compatibility ⁴	Cisco AnyConnect, Cisco Secure Client, SonicWall Connect Tunnel, Palo Alto Global Protect, Wireguard, AppGate SDP, Microsoft Always On VPN				

 $^{1. \}quad \text{At least one SteelHead appliance is required. Recommend running RiOS version 9.12 or higher on it.} \\$

^{2.} Hot swappable disks.

^{2.} Operating altitude up to 10,000 feet except in China 6,562 feet (2,000m).

^{3.} Length is without bezel.

Up to 20,000 clients for VMware ESX, Microsoft Hyper-V, KVM, and AWS platforms. Up to 35,000 clients for Microsoft Azure platforms.
 Please refer to the SteelHead Mobile Installation Guide for details on VM resource requirements.

^{3.} SteelHead Mobile Controller can operate in clustered mode to support additional SteelHead Mobile clients. A cluster of up to 10 Controllers can support up to 200,000 concurrent clients.

^{4.} VPN compatibility may be impacted by vendor software version, client configuration, and other factors.

SteelHead Cloud for Amazon Web Services Cloud

Model Specifications Release RiOS 9.x

Model	CCX PERF-TIER1	CCX PERF-TIER2	CCX PERF-TIER3	CCX PERF-TIER4	CCX PERF-TIER4-H	CCX PERF-TIER5	CCX PERF-TIER5-H
Optimized WAN Capacity ¹	10 Mbps 50 Mbps 200 Mbps		500 Mbps		1 Gbps		
Optimized TCP Connections ²	1,250 4,500		9,000	1,000	30,000	1,000	50,000
Total Elastic Block Store (EBS) Volume Size	430 GB			96	0 GB	2.	4 TB
Amazon Machine Instance (AMI) Size ³	9		M4.2xlarge M5.2xlarge	M4.4xlarge		M4.10xlarge	

Model Specifications Release RiOS10.x

Max Bandwidth License	FLEX-50	FLEX-200	FLEX-500	FLEX-2000
Optimized WAN Capacity ¹	50 Mbps	200 Mbps	500 Mbps	2 Gbps
Optimized TCP Connections ²	4,500 9,000		30,000	50,000
Total Elastic Block Store (EBS) Volume Size	430) GB	1.2 TB	2.4 TB
Amazon Machine Instance (AMI) Size ³	M5.large	M5.2xlarge M6i.2xlarge⁵	M5.4xlarge	M5.8xlarge

SteelHead Cloud for Microsoft Azure Cloud

Model Specifications Release RiOS 9.x

Model	CCX PERF-TIER1	CCX PERF-TIER2	CCX PERF-TIER3	CCX PERF-TIER4	CCX PERF-TIER4-H	CCX PERF-TIER5	CCX PERF-TIER5-H
Optimized WAN Capacity ¹	10 Mbps 50 Mbps 200 Mbps		500 Mbps		1 Gbps		
Optimized TCP Connections ²	1,250	4,500	9,000	1,000	30,000	1,000	50,000
Total Azure Blob Storage Volume Size	430 GB		1.2 TB		2.4 TB		
Azure Target (v4 & v5 Series) ⁴	D2s_v4 D2s_v5			E16s_v4 E16s_v5		E20s_v4 E20s_v5	

Model Specifications Release RiOS 10.x

Max Bandwidth License	FLEX-50	FLEX-200	FLEX-500	FLEX-2000
Optimized WAN Capacity ¹	50 Mbps 200 Mbps		500 Mbps	2 Gbps
Optimized TCP Connections ²	4,500	9,000	30,000	50,000
Total Azure Blob Storage Volume Size	430 GB		1.2 TB	2.4 TB
Azure Target	D4s_v5	D8s_v5 DC4s_v3	D16s_v5	D32s_v5

SteelHead Cloud for Oracle Cloud Infrastructure

Model Specifications Release RiOS 10.x

Model	FLEX-50 FLEX-200		FLEX-500	FLEX-2000
Optimized WAN Capacity ¹	50 Mbps	200 Mbps	500 Mbps	1 Gbps
Optimized TCP Connections ²	4,500	9,000	30,000	50,000
OCI Block Volume Size	430 GB		1.2 TB	2.4 TB
OCI Shape	VM.Standard3.Flex 2 OCPU 16 GB RAM	VM.Standard3.Flex 4 OCPU 32 GB RAM	VM.Standard3.Flex 8 OCPU 64 GB RAM	VM.Standard3.Flex 16 OCPU

SteelHead Cloud for Google Cloud Platform

Model Specifications Release RiOS 10.x

Max Bandwidth License	FLEX-50	FLEX-200	FLEX-500	FLEX-2000
Optimized WAN Capacity ¹	50 Mbps	200 Mbps	500 Mbps	2 Gbps
Optimized TCP Connections ²	4,500	9,000	30,000	50,000
Disk Size	430 GB		1.2 TB	2.4 TB
Machine type	c4-sta	ndard-4	c4-standard-8	c4-standard-16

- 1. Optimized WAN capacity-inbound and outbound.
- 2. Optimized WAN capacity and TCP connections are limited up to the listed amounts
- 3. An M5 new installation requires RIOS Version 9.15.1 or later
- 4. For upgrade scenarios, if there is an existing v2 series, resize won't give options for "Ds_v4" / "Ds_v5" or "Es_v4" / "Es_v5" series.
- 5. Total Memory Encryption (TME) enabled."

NOTE: Riverbed Acceleration Flex licenses can be moved across SteelHead xx80 and xx90 appliances, SteelHead Cloud and SteelHead Virtual.

In this situation, there are two options:

- For the upgrade option, you will need to resize the instance to "Dds_v4" / "Dds_v5" or "Eds_v4" / "Eds_v5" series which come with temporary storage.
- For the migration option, redeploy and migrate to new "Ds_v4" / "Ds_v5" or "Es_v4" / "Es_v5" series instance to use the new image.

SteelHead RS Edge

Model Specifications for Storage Projection

Model	SRSE 1105
Supported SteelHead RS Cores	2U
Configuration	5TB ¹
Minimum Commodity Server Hardware Specs	
Storage Fault Tolerance (Hardware RAID Controller Required) ¹	RAID 10
CPU/Speed	6 Cores (2 GHz)
RAM	48 GB ²
Minimum SSD Storage	6 TB
Required Compute Resources for vSFH VM	
vCPU	6 Cores
VM Memory	48 GB
Storage Resources	
Advanced Tiering Cache (SSD Read Cache)	500 GB
BlockStore (SSD)	~ 5,000 GB ³

Model Specifications for SteelHead Acceleration

Model	SRSE 1105
Configuration	W3
WAN Optimization	
Optimized WAN Capacity ³	30 / 100 Mbps
Optimized TCP Connections and UDP Flows Optimized SSL / TLS Connections	4,500 / 10,000
Network Services - WAN Capacity ⁴	500 Mbps
Network Services - Rules / Classes ⁵	1,000

- RAID configuration for SSD. Must be Battery backed.
- 2. The RAM noted here is the total minimum physical memory available. Additional memory may be required for compute VM's, host OS's, and VM overhead. Please refer to the "SteelHead RS Edge Installation and Configuration Guide" for more information.
- $3. \quad \text{Maximum BlockStore space. For more details, see the "SteelHead RS Edge Installation and Configuration Guide."}$
- 4. Maximum outbound WAN throughput.
- Maxim number of classes per rules

SteelHead RS Core

Licenses and Specifications

Configuration Model	SRSC 1100-C1	SRSC 1100-C2	SRSC 1100-C3	SRSC1100-C4	SRSC 1100-C5		
Profile	Virtual						
Number of Volumes ¹	20	60 ^{2,3}	160 ^{2,3}	250 ^{2,3}	300 ^{2,3}		
Number of Branches ⁴	10	30	80	125	150		
Block Mode Capacity Data Set Size ⁵	5 TB	20 TB	40 TB	75 TB	100 TB		
Cores	4	8	12	16	20		
RAM ⁶	10 GB	36 GB	72 GB	136 GB	180 GB		

- 1. Volumes refer to LUNs for block mode (FC and iSCSI).
- $2. \quad \text{Number of supported LUNs connected using fibre channel (Blockdisk) is 59}.$
- Number of supported LUNs if virtual cores are set up in high availability mode and connected using fibre channel (Blockdisk) is 45.Assumes 2 LUNs per branch.
- 4. Capacity licensed based on sum of capacities of LUNs projected to edges.
- 5. Recommended CPUs @2.2 GHz or higher.
- 6. Recommended RAM assigned.

Flex Subscription for SteelHead³

License Specifications

Model	CXA-00580	CXA-00780 CXA-02090	CXA-03080	CXA-4090	CXA-05080	CXA-07080 B010	CXA-07080 B020 CXA-06090	CXA-07080 B030	CXA-08090
Flex-25	25 Mbps ¹	25 Mbps ¹	25 Mbps¹	25 Mbps ¹	25 Mbps ¹	25 Mbps ¹	25 Mbps ¹	25 Mbps ¹	25 Mbps ¹
Flex-50	50 Mbps ¹	50 Mbps ¹	50 Mbps ¹	50 Mbps ¹	50 Mbps ¹	50 Mbps ¹	50 Mbps ¹	50 Mbps ¹	50 Mbps ¹
Flex-100	100 Mbps²	100 Mbps ¹	100 Mbps ¹	100 Mbps ¹	100 Mbps ¹	100 Mbps ¹	100 Mbps ¹	100 Mbps ¹	100 Mbps¹
Flex-200		200 Mbps²	200 Mbps ¹	200 Mbps ¹	200 Mbps ¹	200 Mbps ¹	200 Mbps ¹	200 Mbps ¹	200 Mbps ¹
Flex-400			400 Mbps²	400 Mbps ¹	400 Mbps ¹	400 Mbps ¹	400 Mbps ¹	400 Mbps ¹	400 Mbps ¹
Flex-500				500 Mbps ²	500 Mbps ¹	500 Mbps ¹	500 Mbps ¹	500 Mbps ¹	500 Mbps ¹
Flex-750					750 Mbps²	750 Mbps ¹	750 Mbps ¹	750 Mbps ¹	750 Mbps ¹
Flex-1000						1000 Mbps ²	1000 Mbps ¹	1000 Mbps ¹	1000 Mbps ¹
Flex-2000							2000 Mbps ²	2000 Mbps ¹	2000 Mbps ¹
Flex-3000								3000 Mbps ²	3000 Mbps ¹
Flex-5000									5000 Mbps ¹
Flex-6000									6000 Mbps ²

- 1. Max throughput defined by license. Higher capacity can be unlocked with higher throughput license
- 2. Max throughput limited by hardware capacity. Higher capacities require larger appliance model and higher throughput license.
- 3. Equivalent to Enterprise Feature Tier.

NOTE: Riverbed Acceleration Flex licenses can be moved across SteelHead xx80 and xx90 appliances, SteelHead Cloud and SteelHead Virtual.



About Riverbed

Riverbed, the leader in AIOps for observability, helps organizations optimize their user's experiences by leveraging AI automation for the prevention, identification, and resolution of IT issues. With over 20 years of experience in data collection and AI and machine learning, Riverbed's open and AI-powered observability platform and solutions optimize digital experiences and greatly improves IT efficiency. Riverbed also offers industry-leading Acceleration solutions that provide fast, agile, secure acceleration of any app, over any network, to users anywhere. Together with our thousands of market-leading customers globally – including 95% of the FORTUNE 100 – we are empowering next-generation digital experiences. Learn more at riverbed.com.

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