

SteelHead™

SteelHead Family

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

SteelHead CX 90 Series

Model Specifications

| Deployment | Branch/Edge | | Data Center | |
|---|---------------------------------------|---|---|--|
| Model | CXA-02090 | CXA-04090 | CXA-06090 | CXA-8090 |
| Profile | Desktop | 1U | 2U | 2U |
| Software Options | FLEX Tier | Up to FLEX-200 | Up to FLEX-2000 | Up to FLEX-6000 |
| | Optimized WAN Capacity ^{1,2} | 200 Mbps | 500 Mbps | 6 Gbps |
| Optimized TCP Connections and UDP Flows | 10,000 | 30,000 | 150,000 | 220,000 |
| 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 | RJ45 1 x 1G, 2 x 1G/2.5G | RJ45 1 x 1G, 2 x 1G/2.5G | RJ45 1 x 1G, 2 x 1G/10G | RJ45 1 x 1G, 2 x 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.
2. Restrictions apply in combination of card types. Please see technical documentation for details.

3. Can also support speeds of 10M/100M.

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 | Branch/Edge | | Data Center | |
|--|---|---|--|--|
| Model | CXA-02090 | CXA-04090 | CXA-06090 | CXA-8090 |
| Dual Power Supplies | No 1x External, 180W Power Brick | Yes 2x500W | Yes 2x1300W | Yes 2x1300W |
| Input Power | 100-127VAC 200-240VAC | 100-127VAC 200-240VAC | 100-127VAC 200-240VAC | 100-127VAC 200-240VAC |
| Power [Amps] (Max) | 0.98A @ 120VAC 0.49A @ 230VAC | With 120VAC: 1.30 With 230VAC: 1.28 | With 120VAC: 4.6 With 230VAC: 2.4 | With 120VAC: 6.0 With 230VAC: 3.1 |
| Power [Watts] (Max) | 118W @ 120VAC 112W @ 230VAC | With 120VAC: 156W With 230VAC: 153W | With 120VAC: 560W With 230VAC: 542W | With 120VAC: 714W With 230VAC: 723W |
| Power [Watts] (Typical) | 94W @ 120 VAC 89W @ 230VAC | With 120VAC: 124W With 230VAC: 122W | With 120VAC: 448W With 230VAC: 434W | With 120VAC: 572W With 230VAC: 579W |
| Power [VA] (Max) | 124VA @ 120VAC 133VA @ 120VAC | With 120VAC: 159 With 230VAC: 155 | With 120VAC: 572 With 230VAC: 554 | With 120VAC: 772 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 381 BTU @ 230VAC | With 120VAC: 531 With 230VAC: 522 | With 120VAC: 1528 With 230VAC: 1480 | With 120VAC: 1949 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) Excluding Rack Ears and Handles | 8.6 x 11.9 x 1.72 in 218 x 302.1 x 43.8 mm | 16.9 x 13.0 x 1.72 in 430 x 330.2 x 43.8 mm | 27.56 x 17.32 x 3.43 in 700 x 440 x 87 mm | 27.56 x 17.32 x 3.43 in 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 329 x 414 x 171 mm | 22.8 x 18.9 x 6.9 in 580 x 480 x 175 mm | 36 x 24 x 12 in 914.4 x 609.6 x 304.8 mm | 36 x 24 x 12 in 914.4 x 609.6 x 304.8 mm |
| Weight (Without Packaging) | 6.31 lbs. 2.875 kg | 15.9 lbs. 7.2 kg | 51 lbs. 23 kg | 51 lbs. 23 kg |
| Rail Information | Rack mount kit included | Rack mount kit included Rail kit optional | Rail kit included | Rail kit included |

SteelHead CX 80 Series

Model Specifications

| Model | | CX580 Series | | | CX780 Series | | | | | CX3080 Series | | | |
|--|-------------------------------------|-------------------------------------|----------------|-----------------------|-----------------------|----------------|-----------------------|------------------|-----------------------|-----------------------|----------------|-----------------------|------------|
| Profile | | Desktop | | | | | | | | | | | 1U |
| Software Options | FLEX License | Tier | Up to FLEX-100 | | | Up to FLEX-200 | | | | | Up to FLEX-400 | | |
| | | Optimized WAN Capacity ¹ | 100 Mbps | | | 200 Mbps | | | | | 400 Mbps | | |
| | Perpetual License | Tier | Essentials | Standard | Enterprise | Essentials | Standard | Enterprise | Turbo Standard | Turbo Enterprise | Essentials | Standard | Enterprise |
| Upgrade Options | | Standard / Enterprise | Enterprise | Already at Enterprise | Standard / Enterprise | Enterprise | Already at Enterprise | Turbo Enterprise | Already at Enterprise | Standard / Enterprise | Enterprise | Already at Enterprise | |
| | Optimized WAN Capacity ¹ | 50 Mbps | | | 100 Mbps | | | 200 Mbps | | 200 Mbps | | | |
| Optimized TCP Connections and UDP Flows | | 2,500 | | | 5,500 | | | | | 14,000 | | | |
| Optimized SSL/TLS Connections | | 2,500 | | | 5,500 | | | | | 14,000 | | | |
| Network Services - WAN Capacity ² | | 1,000 Mbps | | | | | | | | | | | |
| Data Store Capacity | | 200 GB SSD | | | | | | | | 400 GB SSD | | | |
| Web Proxy Cache Capacity | | 150 GB | | | 250 GB | | | | | 350 GB | | | |
| Storage Fault Tolerance | | Not supported | | | | | | | | RAID | | | |
| Hot Swappable Drives | | Not supported | | | | | | | | 2 | | | |
| RAM | | 16 GB | | | | | | | | 24 GB | | | |
| Expansion Slots (PCI-e) ³ | | 0 | | | | | | | | 1 | | | |
| Included Bypass Ports (Copper) | | 4 | | | | | | | | | | | |
| Max. # of Bypass Ports | | 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.
3. 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 | No | | Yes |
| Power [Watts] (Typical) | 37W | 60W | 70W |
| Power Supply Efficiency Rating | 80 Plus Gold | | 80 Plus Platinum |
| BTU | 128 | 205 | 242 |
| Temperature ¹ | 0-45°C / 32-113°F (Operating) -40-65°C / -40-149°F (Storage) | | |
| Relative Humidity ² | 20%-80%, non-condensing (Operating) 10%-95%, non-condensing (Storage) ³ | | 20%-80%, non-condensing (Operating) ³ 10%-95%, non-condensing (Storage) ⁴ |
| Operating Acoustic Noise (Typical) | 45 dBA | | |
| System Dimensions (LxWxH) | 12.25 x 13.75 x 1.73 in 311.15 x 349.25 x 44 mm | | 15.25 x 17.24 x 1.73 in 387.35 x 483 x 44 mm |
| Packaging Dimensions | 17.7 x 12.2 x 7 in 450 x 310 x 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 kit included Orderable Spare Part Number: RMK-4-DT | | 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).
3. 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 | <ul style="list-style-type: none"> • Full Deduplication • TCP Optimization / MXTCP • Hybrid Networking: QOS / Secure Transport / Path Selection | Essentials + <ul style="list-style-type: none"> • HTTPS Optimization • Most Protocol Blades (MAPI, SMB 2/3, CIFS) • Web Proxy • SteelHead Mobile • Secure Protocols Optimization (TLS/SSL, Encrypted / Signed SMB) | Standard + <ul style="list-style-type: none"> • Data Center Protocol Blades (Replication, NFS) • SCPS / FIPS |

SteelHead CX 80 Series

Model Specifications

| Model | | CX5080 Series | | CX7080 Series | | | |
|---|-------------------------------------|--|----------------|----------------|---|--------------------------|-----------------------|
| Hardware Configuration | | CXA-05080-B010 | | CXA-07080-B010 | CXA-07080-B020 | CXA-07080-B030 | |
| Profile | | 2U | | | | | |
| Software Options | FLEX License | Tier | Up to FLEX-750 | | Up to FLEX-1000 | Up to FLEX-2000 | Up to FLEX-3000 |
| | | Optimized WAN Capacity ¹ | 750 Mbps | | 1,000 Mbps | 2,000 Mbps | 3,000 Mbps |
| | Perpetual License | Tier | L25 | L26 | L30 | L31 | L32 |
| | | License Upgrade Path | L26 | Already at L26 | -B020 / L31 or -B030 / L32 ² | -B030 / L32 ² | Already at B030 / L32 |
| | Optimized WAN Capacity ¹ | 300 Mbps | 622 Mbps | 1,000 Mbps | 2,000 Mbps | 3,000 Mbps | |
| 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 | |
| Network Services – WAN Capacity ² | | Unrestricted | | | | | |
| Network Services – Flows ³ | | 160,000 | | 320,000 | 480,000 | 800,000 | |
| Network Services – Rules/Classes | | 6,000 | | | | | |
| Data Store Capacity | | 1.4 TB | | 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 FHFL + 2 FHHL ⁵ | | | Up to 4 FHFL + 1 FHHL + 1 HHHL ⁵ | | |
| 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 120VAC: 298W With 230VAC: 290W | | With 120VAC: 374W With 230VAC: 364W | | With 120VAC: 478W With 230VAC: 459W |
| Power Supply Efficiency Rating | 80 Plus Platinum | | | | |
| BTU | With 120VAC: 1015 With 230VAC: 991 | | With 120VAC: 1275 With 230VAC: 1240 | | 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 Number: 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).

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.

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 | 400 | 800 | 1,600 | 2,240 | 3,600 | 4,800 | |
| Management Disk | 38 | 44 | 56 | 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-100 | FLEX-200 | FLEX-1000 | FLEX-3000 |
|-----------------------------|---------|---------|----------|----------|-----------|-----------|
| Optimized WAN Capacity | 25 Mbps | 50 Mbps | 100 Mbps | 200 Mbps | 1 Gbps | 3 Gbps |
| Optimized TCP Connections | 2,000 | | 5,000 | 12,000 | 100,000 | 150,000 |
| Max Data Store Capacity | 400 GB | | | 800 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 | 8 GB | | | 24 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.
- Hot swappable disks.
- Optional Network Bypass cards: Quad 10GbE SR/LR, Dual 40GbE SR/LR, Dual 100GbE SR/LR.

| Model | INT9800 |
|--|---|
| 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 |

- In China – for use in non-tropical locations.
- Operating altitude up to 10,000 feet except in China 6,562 feet (2,000m).
- Length is without bezel.

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, Windows 11 - 23H2, Windows 11 - 24H2, Windows 11 - 25H2 macOS 14, 15, 26 |
| 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 |

- At least one SteelHead appliance is required. Recommend running RiOS version 9.12 or higher on it.
- 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.
- 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.
- VPN compatibility may be impacted by vendor software version, client configuration, and other factors.

Software Specification

| 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 |

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 | | | 960 GB | | 2.4 TB | |
| Amazon Machine Instance (AMI) Size ³ | M4.large M5.large | | 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.2xlarge ⁴ | 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 | D4s_v4 D4s_v5 | D8s_v4 D8s_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-standard-4 | | c4-standard-8 | c4-standard-16 |

- Optimized WAN capacity-inbound and outbound.
- Optimized WAN capacity and TCP connections are limited up to the listed amounts
- An M5 new installation requires RiOS Version 9.15.1 or later
- 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.
- Total Memory Encryption (TME) enabled.*

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.

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

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) ² | 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 |

- RAID configuration for SSD. Must be Battery backed.
- 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.
- Maximum BlockStore space. For more details, see the "SteelHead RS Edge Installation and Configuration Guide."
- Maximum outbound WAN throughput.
- Maxim number of classes per rules.

Model Specifications for SteelHead Acceleration

| Model | SRSE 1105 |
|--|----------------|
| Configuration | W3 |
| WAN Optimization | |
| Optimized WAN Capacity ² | 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 |

SteelHead RS Core

Licenses and Specifications

| Configuration Model | SRSC 1100-C1 | SRSC 1100-C2 | SRSC 1100-C3 | SRSC 1100-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 |

- Volumes refer to LUNs for block mode (FC and iSCSI).
- 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.
- Capacity licensed based on sum of capacities of LUNs projected to edges.
- Recommended CPUs @2.2 GHz or higher.
- 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 Mbps ¹ | 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 Mbps ² | 100 Mbps ¹ | 100 Mbps ¹ | 100 Mbps ¹ | 100 Mbps ¹ | 100 Mbps ¹ | 100 Mbps ¹ | 100 Mbps ¹ | 100 Mbps ¹ |
| Flex-200 | | 200 Mbps ² | 200 Mbps ¹ | 200 Mbps ¹ | 200 Mbps ¹ | 200 Mbps ¹ | 200 Mbps ¹ | 200 Mbps ¹ | 200 Mbps ¹ |
| Flex-400 | | | 400 Mbps ² | 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 Mbps ² | 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.

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