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# STEELHEAD PRODUCT FAMILY SPEC SHEET

Riverbed® SteelHead™ delivers acceleration everywhere for end users while enhancing IT control and visibility for Wide Area and Hybrid Networks. SteelHead products are available in various form factors as physical appliances, software and virtual appliances and as cloud instances for every type of customer environment – in the data center, branch office, cloud and on the go. Available in this Spec Sheet brochure:

• SteelHead™ CX
• SteelHead™ CX for Amazon Web Services (AWS), VMware® ESX®, and Microsoft® Azure (formerly Cloud Steelhead) cloud platforms
• SteelHead™ Mobile
• SteelHead™ Interceptor, SteelCentral™ Controller or SCC (formerly Central Management Console or CMC), and SteelCentral™ Controller for SteelHead Mobile or SCCM (formerly Steelhead Mobile Controller or SMC)

## SteelHead CX: Model Specifications

| Model | Branch Office SteelHead | | | | Mid-Size Office SteelHead | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | CX255 Series | | | | CX570 Series | | | CX770 Series | | |
| Configurations | U | L | M | H | L | M | H | L | M | H |
| Profile | Desktop | | | | | | | | | |
| Upgradeable To | 255 L/M/H | 255M/H | 255H | - | 570 M/H | 570-H | - | 770-M/H | 770H | - |
| Optimized TCP Connections & UDP Flows | 50 | 75 | 150 | 230 | 275(c) | 450(c) | 700(c) | 1,000(c) | 1,500 | 2,500(c) |
| Optimized SSL/TLS Connections | 50 | 75 | 150 | 230 | 275(c) | 450(c) | 700(c) | 1,000(c) | 1,500 | 2,500(c) |
| Optimized WAN Capacity(a) | 2 Mbps | 6 Mbps | | | 10 Mbps(c) | 10 Mbps | | 20 Mbps(c) | | 30 Mbps(c) |
| Network Services - WAN Capacity(b) | 10 Mbps(c) | 30 Mbps(c) | | | 50 Mbps(c) | | | 100 Mbps(c) | | 150 Mbps(c) |
| Network Services - Flows(d) | 8,000 | | | | 8,000 | | | 16,000 | | |
| Network Services - Rules/Classes(e) | 300 | | | | 500 | | | 1,000 | | |
| Data Store Capacity | 50 GB | | | | 70 GB SSD | | | 150 GB SSD | | |
| Storage Fault Tolerance | - | | | | - | | | - | | |
| Hot Swappable Drives | - | | | | - | | | - | | |
| RAM | 2 GB | | | | 2 GB | | | 4 GB | | |
| Expansion Slots (PCI-e)(g) | - | | | | - | | | - | | |
| Included Bypass Ports (Copper) | 2 | | | | 4 | | | 4 | | |
| Max. # of Bypass Ports | 2 | | | | 4 | | | 4 | | |

## SteelHead CX: Model Specifications, continued

| Model | CX3070 Series | | | CX5070 Series | | CX7070 Series | | |
|---|---|---|---|---|---|---|---|---|
| **Large Office or Data Center SteelHead** | | | | | | | | |
| Configurations | L | M | H | M | H | L | M | H |
| Profile | 1U | | | 2U | | | | |
| Upgradeable To | 3070-M/H | 3070-H | - | 5070 H | - | 7070-M/H | 7070-H | - |
| Optimized TCP Connections & UDP Flows | 3,000 | 6,000 | 9,000 | 16,000 | 30,000 | 80,000 | 110,000 | 180,000 |
| Optimized SSL/TLS Connections | | | | | | | | |
| Optimized WAN Capacity(a) | 50 Mbps | 100 Mbps | | 200 Mbps | 400 Mbps | 622 Mbps | 1 Gbps | 2 Gbps(h)(i) |
| Network Services - WAN Capacity(b) | 250 Mbps | 500 Mbps | | Unrestricted | | | | |
| Network Services - Flows(d) | 48,000 | | | 96,000 | | 192,000 | 256,000 | 512,000 |
| Network Services - Rules/Classes(e) | 2,000 | | | 4,000 | | | | |
| Data Store Capacity | 320 GB SSD | | | 960 GB SSD | | 1.8 TB SSD | 2.4 TB SSD | 4.8 TB SSD |
| Storage Fault Tolerance | RAID(f) | | | RAID(f) | | | | |
| Hot Swappable Drives | 4 | | | 8 | | 8 | 10 | 18 |
| RAM | 12 GB | | | 24 GB | | 48 GB | 64 GB | 128 GB |
| Expansion Slots (PCI-e)(g) | 2 | | | 4 | | | | |
| Included Bypass Ports (Copper) | 4 | | | 4 | | | | |
| Max. # of Bypass Ports | 12 | | | 20 | | | | |

NOTE: All WAN capacities, connections, flows and rules/classes specifications listed are maximums and may not be achieved simultaneously and/or in all environments.
(a) Optimized WAN capacity limit is enforced on outbound optimized traffic. Inbound optimized WAN traffic is not capped.
(b) Maximum outbound WAN throughput
(c) RiOS 8.6.2b or later
(d) Inclusive of all optimized and/or managed flows
(e) Maximum number of classes plus rules
(f) RAID1 configuration for HDD, Data store uses fault tolerant striped (FTS) configuration for SSD
(g) Optional Network Bypass cards: Dual and Quad LX and SX GigE Fiber GigE, Quad Copper GigE, 10GbE SR/LR
(h) No enforced optimized WAN bandwidth limit
**(i)** 7070-H WAN capacity is specified at up to 2 Gbps for Branch-to-Data Center workloads and up to 3 Gbps for Data Center-to-Data Center workloads

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## SteelHead CX: Power & Physical Specifications

| Model | Branch Office SteelHead | Mid-Size Office SteelHead | | Large Office or Data Center SteelHead | | |
|---|---|---|---|---|---|---|
| | CX255 Series | CX570 Series | CX770 Series | CX3070 Series | CX5070 Series | CX7070 Series |
| Dual Power Supplies | - | - | | ✓ | ✓ | |
| Power [Watts] (Typical) | 30 | 45 | 50 | 123 | 233 | 416 |
| BTU | 102 | 145 | 165 | 418 | 794 | 1419 |
| Temperature[ii] | 0 - 45 deg C / 32 - 113 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage) | | | 10°to 35°C (50°to 95°F) (Operating) -40 - 70 deg C / -40 - 158 deg F (Storage) | | |
| Relative Humidity[i] | 20% - 80% non-condensing (Operating) 5% - 95% non-condensing (Storage) | | | 20% - 80% non-condensing (Operating) [iv] 50% - 80% non-condensing (Storage) [v] | | |
| Operating Acoustic noise (Typical) | 45 dBA | | | 7.0 BA (Operating condition in typical office ambient temperature: 23 +/- 2 deg C) | | |
| System Dimensions (LxWxH)[iii] | 13.0"x8.0"x1.73" 330x204x44mm | | | 25.21 X 17.24 X 1.7 in 640.43 X 438 X 43.2 mm | 27.87 X 17.24 X 3.45 in 707.8 X 438 X 87.6 mm | |
| Packaging Dimensions | 17.7 x 12.2 x 7 in 450x310x180 mm | | | 36" x 24" x 13" inch 914.4 X 609.6 X 330.2 mm | 36" x 24" x 14" inch 914.4 X 609.6 X 355.6 mm | |
| Max Weight (without packaging) | 5.5 Lbs 2.4 Kg | 6 Lbs 2.7 Kg | | 27 lbs 12.25 Kg | 41 lbs 18.59 kg | 41 lbs 18.59 kg / 42 lbs 19.05 kg |
| Rail Information | Included spare part RMK-010, Orderable RMK-016 | | | Mounting Rail Kit Included Orderable Spare Part Numbers: RMK-1-VRAIL, RMK-1-PRAIL | | |

(i) Operating altitude up to 10,000 feet except in China 6,562 feet (2,000m)
(ii) In China- for use in non-tropical locations
(iii) Length is without bezel
(iv) Max dew point of 21 deg C / 698.8 deg F
(v) Maximum wet bulb of 28 deg C / 82.4 deg F (at temperatures from 25-35 deg C / 77 – 95 deg F)
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 CX for Virtual: Model Specifications

| Model | VCX255 | | | | VCX555 | | | VCX755 | | | VCX1555 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Configurations | U | L | M | H | L | M | H | L | M | H | L | M | H |
| Optimized WAN Capacity | 2 Mbps | 6 Mbps | | | 6 Mbps | 10 Mbps | | 10 Mbps | | 20 Mbps | 50 Mbps | | 100 Mbps[c] |
| Optimized TCP and UDP flows | 50 | 75 | 150 | 230 | 250 | 400 | 650 | 900 | 1,500 | 2,300 | 3,000 | 4,500 | 6,000 |
| QoS Bandwidth[a] | 4 Mbps | 12 Mbps | | | 12 Mbps | 20 Mbps | | 45 Mbps | | | 100 Mbps | | |
| QoS Rules/Classes[b] | No Published Limit (global QOS limit of 2000 rules and 2000 classes) | | | | | | | | | | | | |
| Disk Capacity Advised | 88 GB | | | | 118 GB | | | 140 GB | | 188 GB | 438 GB | | |
| Max Data Store Capacity | 50 GB | | | | 80 GB | | | 102 GB | | 150 GB | 400 GB | | |
| Virtual CPUs Required (min) | 1 x 1.0Ghz | | | | 1 x 1.2Ghz | | | 2 x 1.2Ghz | | | 4 x @ 1.2Ghz | | |
| Reserved Memory Required | 2GB | | | | 2GB | | | 2GB | | 4GB | 8 GB | | |

## SteelHead CX for Virtual: Model Specifications, continued

| Model | VCX5055 | | VCX7055 | |
|---|---|---|---|---|
| Configurations | M | H | L | M |
| Optimized WAN Capacity | 200 Mbps[c] | 400 Mbps[c] | 622 Mbps[c] | 1 Gbps[c] |
| Optimized TCP and UDP flows | 14,000 | 25,000 | 75, 000 | 100, 000 |
| QoS Bandwidth[a] | Unlimited | | | |
| QoS Rules/Classes[b] | No Published Limit (global QOS limit of 2000 rules and 2000 classes) | | | |
| Disk Capacity Advised | 722 GB | | 1778 GB | 2418 GB |
| Max Data Store Capacity | 8 x 80GB | | 10 x 160GB | 14 x 160GB |
| Virtual CPUs Required (min) | 12 x 1.2Ghz | | 16 x1.2 Ghz | 24 x 1.2 Ghz |
| Reserved Memory Required | 16 GB | | 32 GB | 48 GB |

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
(a) Recommended maximum outbound QoS shaping capacity
(b) Total of classes plus rules
(c) SSD or other high IOPS storage medium required for VCX1555/5055/7055 models
Available H/W NIC options are NIC-001-2TX (2 port copper), NIC-002-4TX (4 port copper), NIC-008-2SR (2 port multimode fiber).
Hyper-V is supported only for Models up to VCX 1555H (100Mbps) on Windows Server 2012 and Hyper-V Server 2012 running RiOS 8.0.3 and later. The Riverbed network bypass card is not supported on Hyper-V.
NOTE: Virtual Steelhead guests must run at least RiOS 6.1 or later, and support vSphere 4.0 or later release, using ESX/ESXi 4.0 or later. RiOS 6.5.x and later support ESXi 4.1. RiOS 6.5.2 and later support ESXi 5.0. RiOS 8.6.0 and later support ESXi 5.1. Please refer to the VMware system compatibility guide for servers supported with these VSphere/ESX/ESXi releases.
Riverbed network bypass cards NIC-001-2TX , NIC-002-4TX , and NIC-003-4TX are supported by Virtual Steelhead guests running RiOS 7.0.1 or later.
Riverbed network bypass cards are supported only on ESXi 4.1 and up for all current RiOS releases.
Riverbed network bypass cards NIC-008-2SR is supported by Virtual Steelhead guests on ESXi running RiOS 8.6.0 or later.

## SteelHead CX for Amazon Web Services Cloud: Model Specifications

| Model | CCX255U | CCX255L | CCX255M | CCX255H | CCX570L | CCX570M | CCX570H | CCX770L |
|---|---|---|---|---|---|---|---|---|
| Optimized WAN Capacity[a] | 2 Mbps | 6 Mbps | 6 Mbps | 6 Mbps | 6 Mbps | 10 Mbps | 10 Mbps | 10 Mbps |
| Optimized TCP Connections[b] | 50 | 75 | 150 | 230 | 250 | 400 | 650 | 900 |
| Total Elastic Block Store (EBS) Volume Size | 440 GB | 440 GB | 440 GB | 440 GB | 440 GB | 460 GB | 460 GB | 460 GB |
| Amazon Machine Instance (AMI) Size[c] | m1.small | m1.small | m1.small | m1.small | m3.large | m3.large | m3.large | m3.large |

## SteelHead CX for Amazon Web Services Cloud: Model Specifications, continued

| Model | CCX770M | CCX1555L | CCX1555M | CCX 3070H | CCX PERF-TIER4 | CCX PERF-TIER4-H |
|---|---|---|---|---|---|---|
| Optimized WAN Capacity[a] | 10 Mbps | 50 Mbps | 50 Mbps | 150 Mbps | NA | NA |
| Optimized TCP Connections[b] | 1500 | 3000 | 4500 | 9000 | NA | NA |
| Total Elastic Block Store (EBS) Volume Size | 460 GB | 460 GB | 460 GB | 460 GB | NA | NA |
| Amazon Machine Instance (AMI) Size[c] | m3.large | m3.large | m3.large | m3.xlarge | NA | NA |

a) Optimized WAN Capacity-Inbound and outbound
(b) Optimized WAN Capacity and TCP connections are limited up to the listed amounts
(c) CPU and Memory capacity are fixed for any Amazon Machine Instance (AMI) size.
(d) CCX models are supported starting RiOS 8.6
(e) AWS may not support creation of m1.small instance in all regions.

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## SteelHead CX for VMware ESX Cloud: Model Specifications

| Model | CCX255U | CCX255L | CCX255M | CCX255H | CCX570L | CCX570M | CCX570H | CCX770L |
|---|---|---|---|---|---|---|---|---|
| Optimized WAN Capacity(a) | 2 Mbps | 6 Mbps | 6 Mbps | 6 Mbps | 6 Mbps | 10 Mbps | 10 Mbps | 10 Mbps |
| Optimized TCP Connections(b) | 50 | 75 | 150 | 230 | 250 | 400 | 650 | 900 |
| Disk Capacity Required | 480 GB | 480 GB | 480 GB | 480 GB | 480 GB | 480 GB | 480 GB | 480 GB |
| Virtual CPUs Required | 1 x 1.0Ghz | 1 x 1.0Ghz | 1 x 1.0Ghz | 1 x 1.0Ghz | 1 x 1.2Ghz | 1 x 1.2Ghz | 1 x 1.2Ghz | 2 x 1.2Ghz |
| Reserved Memory Required | 2 GB | 2 GB | 2 GB | 2 GB | 3 GB | 3 GB | 3 GB | 3 GB |

## SteelHead CX for VMware ESX Cloud: Model Specifications, continued

| Model | CCX770M | CCX1555L | CCX1555M | CCX 3070H | CCX PERF-TIER4 | CCX PERF-TIER4-H |
|---|---|---|---|---|---|---|
| Optimized WAN Capacity(a) | 10 Mbps | 50 Mbps | 50 Mbps | 150 Mbps | NA | NA |
| Optimized TCP Connections(b) | 1500 | 3000 | 4500 | 9000 | NA | NA |
| Disk Capacity Required | 480 GB | 480 GB | 480 GB | 480 GB | NA | NA |
| Virtual CPUs Required | 2 x 1.2Ghz | 4 x 1.2Ghz | 4 x 1.2Ghz | 4 X 1.2 GHz | NA | NA |
| Reserved Memory Required | 3 GB | 8 GB | 8 GB | 12 GB | NA | NA |

(a) Optimized WAN Capacity-Inbound and outbound
(b) Optimized WAN Capacity and TCP connections are limited up to the listed amounts
(c) CCX models are supported starting RiOS 8.6
Note: Please refer to the VMware system compatibility guide for servers supported with these VSphere releases

## SteelHead CX for Microsoft Azure Cloud: Model Specifications

| Model | CCX255U | CCX255L | CCX255M | CCX255H | CCX570L | CCX570M | CCX570H | CCX770L |
|---|---|---|---|---|---|---|---|---|
| Optimized WAN Capacity(a) | 2 Mbps | 6 Mbps | 6 Mbps | 6 Mbps | 6 Mbps | 10 Mbps | 10 Mbps | 10 Mbps |
| Optimized TCP Connections(b) | 50 | 75 | 150 | 230 | 250 | 400 | 650 | 900 |
| Total Azure Blob Storage Volume Size | 440 GB | 440 GB | 440 GB | 440 GB | 460 GB | 460 GB | 460 GB | 460 GB |
| Azure Target | D1 | D1 | D1 | D1 | D1 | D1 | D1 | A2 |

## SteelHead CX for Microsoft Azure Cloud: Model Specifications, continued

| Model | CCX770M | CCX1555L | CCX1555M | CCX 3070H | CCX PERF-TIER4 | CCX PERF-TIER4-H |
|---|---|---|---|---|---|---|
| Optimized WAN Capacity(a) | 10 Mbps | 50 Mbps | 50 Mbps | 150 Mbps | 400 Mbps | 400 Mbps |
| Optimized TCP Connections(b) | 1500 | 3000 | 4500 | 9000 | 1000 | 30000 |
| Total Azure Blob Storage Volume Size | 460 GB | 460 GB | 460 GB | 460 GB | 960 GB | 960 GB |
| Azure Target | A2 | A3 | A3 | D3 | D14 v2 | D14 v2 |

(a) Optimized WAN Capacity-Inbound and outbound
(b) Optimized WAN Capacity and TCP connections are limited up to the listed amounts
(c) CCX models are supported starting RiOS 8.6. CCX PERF-TIERx models are supported starting RiOS 9.2

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## SteelHead Interceptor, SteelCentral Controller for SteelHead or SCC (formerly Central Management Console or CMC), SteelCentral Controller for SteelHead Mobile or SCCM (formerly Steelhead Mobile Controller or SMC): Model Specifications

| Model | Data Center | | Management | |
|---|---|---|---|---|
| | INT9600 | INT9350 | SCC1000 | SMC9000 |
| Profile | 2U | 3U | 1U | 1U |
| Effective LAN Throughput | 40 Gbps[(a)(b)] | 16 Gbps[(g)] | - | - |
| Optimized TCP connections | 2,500,000[(c)] | 1,000,000[(c)] | - | - |
| Storage Fault Tolerance | RAID | RAID | - | - |
| Front Swappable Drives | 2[(d)] | 3[(d)] | 2[(f)] | 2[(f)] |
| RAM | 32 GB | 8 GB | 32 GB | 16 GB |
| Expansion Slots (PCI-e) | 6[(e)] | 4[(e)] | - | - |
| Included Bypass Ports (Copper) | 4 | 4 | - | - |
| Max. # of Bypass Ports | 24 | 20 | - | - |
| Max. # of Manageable Appliances | - | - | 2000 | - |

(a) NOTE: All LAN Capacity, Bandwidth, and TCP Connections listed are maximums and may not be achieved in all environments
(b) Requires 5 or greater 10G in-path interfaces and xbridge enabled
(c) TCP connections can be expected up to the amount listed
(d) Hot swappable disks
(e) Optional Network Bypass cards: Dual and Quad LX and SX GigE Fiber GigE, Quad Copper GigE, Dual 10GbE SR/LR
(f) Internal hard disks
(g) Multiple inpath interfaces were used to achieve this throughput. Up to 40Gbps throughput (rx+tx traffic). Requires version INT 3.0 with xbridge enabled. WCCP and PBR configurations are not supported when xbridge is enabled

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## SteelHead Interceptor, SteelCentral Controller for SteelHead or SCC (formerly Steelhead Central Management Console or CMC), SteelCentral Controller for SteelHead Mobile or SCCM (formerly Steelhead Mobile Controller or SMC): Model Specifications: Power & Physical Specifications

| | Datacenter | |
|---|---|---|
| **Model** | **INT9600** | **INT9350** |
| **Dual Power Supplies** | ✓ | ✓ |
| **Power [Watts] (Typical)** | 227 | 320 |
| **BTU** | 774 | 1091 |
| **Temperature[ii]** | 10 – 35 deg C (50°to 95°F) (Operating) -40 - 70 deg C / -40 - 158 deg F (Storage) | 10 - 40 deg C / 50 - 95 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage) |
| **Relative Humidity[i]** | 50% to 90%, non-condensing with a maximum wet bulb of 28 deg C (at temperatures from 25 to 35 deg C) [iv] | 20% - 80% non-condensing (Operating) 5% - 95% non-condensing (Storage) |
| **Operating Acoustic noise** | 7.0 BA (Operating condition in typical office ambient temperature: 23 +/- 2 deg C) | 61 dBA Sound Pressure (Typical) |
| **System Dimensions (LxWxH)[iii]** | 27.87 X 17.24 X 3.45 in 707.8 X 438 X 87.6 mm | 25.72x17.0x5.2 in 653.4x431.6x131.9 mm |
| **Packaging Dimensions** | 36 x 24 x 14 inch 914.4 X 609.6 X 355.6 mm | 34.1x23.7x15.9 in 866x602x403 mm |
| **Max Weight (without packaging)** | 40 Lbs/ 18.14 Kg | 51Lbs/ 23.2Kg |
| **Rail Information** | Mounting Rail Kit Included Orderable Spare Part Numbers: RMK-1-VRAIL, RMK-1-PRAIL | Mounting rail kit inlcuded. Orderable spare part RMK-003 |

| | Management | |
|---|---|---|
| **Model** | **SCC1000** | **SMC9000** |
| **Dual Power Supplies** | - | |
| **Power [Watts] (Typical)** | 50 | |
| **BTU** | 165 | |
| **Temperature[ii]** | 0 - 45 deg C / 32 - 113 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage) | |
| **Relative Humidity[i]** | 20% - 80% non-condensing (Operating) 5% - 95% non-condensing (Storage) | |
| **Operating Acoustic noise** | 45 dBA | |
| **System Dimensions (LxWxH)[iii]** | 13.0"x8.0"x1.73" 330x204x44mm | |
| **Packaging Dimensions** | 17.7 x 12.2 x 7 in 450x310x180 mm | |
| **Max Weight (without packaging)** | 6lbs 2.7kg | |
| **Rail Information** | Included spare part RMK-010, Orderable RMK-016 | |

(i) Operating altitude up to 10,000 feet except in China 6,562 feet (2,000m)
(ii) In China- for use in non-tropical locations
(iii) Length is without bezel
(iv) Shipping Humidity Spec for CXA-xxx70/INT9600 models

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

| | SteelHead Mobile | | |
|---|---|---|---|
| | **Version 4.6 & earlier**<br>Windows 2000 SP4, XP SP2 (32 bit versions only); Vista and Windows 7 (32 bit and 64 bit versions).  Windows 8 (32 bit and 64 bit versions), Mac OSX 10.6, 10.7 and 10.8 | **Version 4.7**<br>Windows 7 (32 and 64 bit), Windows 8 (32 and  64 bit), 8.1 (64 bit), Mac OSX 10.8, 10.9 and 10.10 | **Version 4.8**<br>Windows 10 (32 & 64 bit), Windows 7 (32 & 64 bit), Windows 8 (32 & 64 bit), 8.1 (64 bit), Mac OSX 10.8, 10.9 and 10.10 |
| **Operating System** | | | |
| **CPU** | 1GHz or higher | | |
| **Memory** | 2GB or higher | | |
| **Data Store** | 256 MB free disk space (min. required) | | |
| **VSP CPU & Memory Requirements** | Minimum 1 CPU (1GHz or higher) & 3 GB or higher | | |
| **SteelHead Appliance[1]** | Minimum 1 Physical (CX, EX), Virtual (VCX) or Cloud SteelHead (CCX) needed on the Server Side | | |
| **SteelCentral Controller for Mobile SteelHead - SCCM (formerly SMC)** | Required: Either SteelHead Mobile Controller Appliance *or* SteelHead Mobile Controller Virtual Edition | | |

## SteelHead Mobile: Software Specifications

| | SteelHead Mobile |
|---|---|
| **Concurrent Clients Supported per SCCM** | 20,000 (SMC9000) / 4,000 (SMC8650) & (SMC-Virtual Edition) [5] |
| **Concurrent Clients Supported with SCCM Cluster[2]** | (Number of SMC9000s x 20,000) or  (Number of SMC8650s/SMC-Virtual) x 4,000) |
| **VPN Compatibility[3]** | Cisco, Juniper, OpenVPN, Microsoft, Citrix, Array, Checkpoint, F5, Dell Sonicwall Aventail, Fortinet, NetMotion Mobile VPN, Apple VN, Palo Alto Global Protect (version 4.7 onwards) |

(1) At least one SteelHead appliance is required. Recommend running RiOS version 8.6 or higher on it.
(2) SCCMs (SMCs) can operate in clustered mode to support additional SteelHead Mobile clients. A cluster can have a mix of SMC8650 and SMC9000 models but is not recommended. Up to 100,000 concurrent clients can be supported by minimum of 5 SMC9000s and up to 20,000 concurrent clients can be supported by a cluster of 5 SMC 8650s.
(3) VPN compatibility may be impacted by vendor software version, client configuration, and other factors.
(4) SMC9000 is supported on SHM 4.5.1 and later versions only.
(5) Up to 100 clients for Riverbed RSP/VSP platforms; Up to 4000 clients for VMWare ESX and EX v2 platforms. Please refer to the SteelHead Mobile Installation Guide for details on VM resource requirements.