riverbed®

SD-WAN

- SteelHead SD
- SteelConnect Gateways - Physical, Virtual
- AWS and Azure Cloud - SteelConnect Gateway + Cloud SteelHead
- SteelConnect Switches
- SteelConnect Access Points

Model Specifications: SteelHead SD Series

Model	CX570 Series			CX770 Series			CX3070 Series		
Configurations	L	M	H	L	M	H	L	M	H
Profile	Desktop			Desktop			1U		
SD-WAN Only Mode	Yes								
WAN Op License Upgradeable to	570M/H	570H	-	770M/H	770H	-	3070M/H	3070H	-
Optimized TCP Connections and UDP Flows Optimized SSL/TLS Connections	275	450	700	1,000	1,500	2,500	3,000	6,000	9,000
Optimized WAN Capacity[1]	10 Mbps			20 Mbps		30 Mbps	50 Mbps	75 Mbps[3]	
Max SD-WAN (Auto-VPN) Throughput[2]	100 Mbps			200 Mbps			500 Mbps[3]		
Data Store Capacity	70 GB SSD			150 GB SSD			320 GB SSD		
Web Proxy Cache Capacity	50 GB			50 GB			200 GB		
Storage Fault Tolerance	-			-			RAID[4]		
Hot Swappable Drives	-			-			-		
RAM	8 GB			12 GB			16 GB		
Expansion Slots (PCI-e)	-			-			2		

1. Optimized WAN capacity limit is enforced on outbound optimized traffic. Inbound optimized WAN traffic is not capped
2. Maximum SD-WAN (Auto-VPN) throughput is calculated as aggregate throughput in both directions and applies to SD-WAN only mode
3. With WAN Op enabled on 3070 platforms max throughput/capacity specs may not be achievable in all environments
4. RAID1 configuration for HDD, Data store uses fault tolerant striped (FTS) configuration for SSDRAID1 configuration for HDD, Data store uses fault tolerant striped (FTS) configuration for SSD

NOTE: All WAN (SD-WAN and WAN Op) capacities and connections are maximums and may not be achieved simultaneously and/or in all environments

Model Specifications – Physical Appliances: SteelConnect Gateway

Model	SDI-130/SDI-130W	SDI-330	SDI-1030
Use Case	Small branch office or retail	Medium branch office	Large branch office or data center
Recommended # of Users	5-50 users	25-250 users	200-2000 users
Performance	25 Mbps VPN 50 Mbps VPN 100 Mbps VPN	50 Mbps VPN 100 Mbps VPN 200 Mbps VPN	200 Mbps VPN 1 Gbps VPN 2.5 Gbps VPN
Interfaces	2x GbE WAN ports 8x GbE LAN ports 2x WLAN (2.4/5 GHz, 2x2 MIMO, only SDI-130W) 1x USB 2.0 port	2x GbE WAN ports 8x GbE LAN ports 1x USB 2.0 port OLED status display	8x 1 GbE RJ45 ports (LAN or WAN) 4x 10 GbE SFP+ ports (LAN or WAN) 10 GbE copper, SR or LR SFP+ orderable separately 1x USB 2.0 port 1x RJ45 serial port OLED status display
AC/DC Power	12V/2A DC power adapter (included)	100-240V 50/60Hz AC (built-in)	Dual power supplies (redundant and hot-swappable) 100-240V 50/60Hz AC (built-in)
Power (Watts)	10.8 / 11.4	13.2	80.5
BTU	36.8 / 38.9	45.0	274.7
Physical Design	Industrial design Snapdisc mount Desktop/wall mountable	Industrial design 1U rackmount	1U rackmount
Operating Acoustic Noise (Typical)	N / A (fanless)	N / A (fanless)	Light load: 42 dB Full load: 61 dB
Relative Humidity	10-90% non-condensing for both storage and operating conditions	10-90% non-condensing for both storage and operating conditions N / A (fanless)	10-90% non-condensing for both storage and operating conditions
System Dimensions	32.0 x 23.5 x 4.5 cm (12.6 x 9.3 x 1.8 in)	44.1 x 21.9 x 4.4 cm (17.4 x 8.6 x 1.7 in)	44.1 x 36.5 x 4.5 cm (17.36 x 14.37 x 1.8 in)
System Weight	0.8 kg (1.76 lb)	3 kg (6.61 lb)	6.3 kg (13.76 lb)
Packaged Dimensions	52.4 x 26.8 x 7 cm 20.63 x 10.55 x 2.75 in)	59.9 x 53.3 x 14 cm (23.58 x 20.98 x 5.51 in)	66.6 x 53.3 x 14.0 cm (26.22 x 20.98 x 5.51 in)
Packaged Weight	1.9 kg (4.2 lb)	6.6 kg (14.6 lb)	10.7 kg (23.59 lb)
Temperature Range	Operating: 0-40°C (32-104°F) Storage: -20-60°C (-4-140°F)	Operating: 0-40°C (32-104°F) Storage: -20-60°C (-4-140°F)	Operating: 0-45°C (32-113°F) Storage: -20-60°C (-4-140°F)

Model	SDI-2030	SDI-5030
Use Case	Campus or data center	Campus or data center
Recommended # of Users		Not applicable
Performance	1 Gbps VPN	5 Gbps VPN[1] 10 Gbps VPN Throughput supported via Cluster
Cluster / High Availability Configuration	1+1 (active-active)	Minimum of 3 nodes (2+1) N+K set up N= active nodes K= spare nodes
Interfaces	2x 10 GbE (RJ45) ports (LAN or WAN) 4x 1 GbE ports via IOM Slot (LAN or WAN) 3x USB 2.0 ports 1x VGA port 1x serial console port 1x PCIe slot (optional NICs can be purchased separately) (LAN or WAN)	2x 10 GbE (RJ45) ports 4x 1 GbE (RJ45) ports via IOM Slot 3x USB 2.0 ports 1x VGA port 1x serial console port 1x PCIe slot (optional NICs can be purchased separately)
AC/DC Power	Dual power supplies (redundant and hot-swappable) 100-240V 50/60Hz AC (built-in)	Dual power supplies (redundant and hot-swappable) 100-240V 50/60Hz AC (built-in)
Power (Watts)	225.0	285.0
BTU	767.0	972.5
Physical Design	1U Rackmount	1U Rackmount
Operating Acoustic Noise (Typical)	70 db	70 db
Relative Humidity	50%-90% non-condensing with maximum wet bulb of 28°C	50%-90% non-condensing with maximum wet bulb of 28°C
System Dimensions	71.1 x 43.7 x 4.3 cm (28.0 x 17.3 x 1.7 in)	71.1 x 43.7 x 4.3 cm (28.0 x 17.3 x 1.7 in)
System Weight	14 kg (31 lb)	15 kg (33 lb)
Packaged Dimensions	89.2 x 60.9 x 24.5 cm (35.1 x 24.0 x 9.25 in)	89.2 x 60.9 x 24.5 cm (35.1 x 24.0 x 9.25 in)
Packaged Weight	18 kg (40 lb)	19 kg (42 lb)
Temperature Range	Operating: 0 to 35°C (32 to 95°F) Storage: -40 to 70°C (-40 to 158°F)	Operating: 0 to 35°C (32 to 95°F) Storage: -40 to 70°C (-40 to 158°F)

1. 5 Gbps VPN when using two or more Interfaces

Model Specifications – Virtual: SteelConnect Gateway

Model	SDI-VGW
Use Case	Virtual- and cloud environments
Recommended # of Users	5-2500 users
Performance	VGW-001: 25 Mbps VPN VGW-002: 50 Mbps VPN VGW-003: 100 Mbps VPN Hardware requirements: 1 CPU core @ 2.1 GHz (Intel E5-2600v4) 1 GB DRAM and 200 MB storage VGW-004: 200 Mbps VPN Hardware requirements: 2 CPU cores @ 2.1 GHz (Intel E5-2600v4) 2 GB DRAM and 400 MB storage VGW-006: 2.5 Gbps VPN Hardware requirements: 4 CPU cores @ 3.0 GHz or 6 CPU cores @ 2.1 GHz (Intel E5-2600v4) 8 GB DRAM and 2 GB storage Actual performance will vary depending on hypervisor/virtualization and hardware platform design
Interfaces	A min of 2 virtual network interfaces (1x LAN & 1x WAN) is required; up to the max supported by the hypervisor and sufficient interface bandwidth (vnic & host) to support the licensed performance level
Power	N / A
Physical Design	Compatible with VMware, KVM, Hyper-V, Citrix, Virtual Box, Amazon Web Services
Operating Acoustic Noise (Typical)	N / A
Relative Humidity	N / A
System Dimensions	N / A
System Weight	N / A
Packaged Dimensions	N / A
Packaged Weight	N / A
Temperature Range	N / A

Model Specifications – AWS Cloud: SteelConnect Gateway + Cloud SteelHead

AWS SteelConnect Gateway (SCGW)		AWS SteelConnect SteelHead (SCSH)		
AWS Instance Type	SCGW Specs	AWS Instance Type	SCSH Specs Throughput	SCSH Specs Max Conns
t2.nano	10 Mbps	-	-	
t2.micro	30 Mbps	t2.medium	30 Mbps	1,500
t2.small	60 Mbps	t2.large	60 Mbps	1,500
t2.medium	120 Mbps	m4.large	120 Mbps	1,500
c4.large	200 Mbps	m4.xlarge	175 Mbps	9,000
t2.large	300 Mbps	m4.2xlarge	250 Mbps	30,000
c4.xlarge	450 Mbps	m4.4xlarge	400 Mbps	30,000
c4.2xlarge	700 Mbps	-	-	-
c4.4xlarge	1,200 Mbps	-	-	-
c4.8xlarge	1,800 Mbps	-	-	-

Model Specifications – Azure Cloud: SteelConnect Gateway + Cloud SteelHead

Azure SteelConnect Gateway (SCGW)		Azure SteelConnect SteelHead (SCSH)		
Azure Instance Type	SCGW Specs	Azure Instance Type	SCSH Specs Throughput	SCSH Specs Max Conns
DS2_v2	100 Mbps	DS2_v2	120 Mbps	3,000
DS3_v2	200 Mbps	DS3_v2	175 Mbps	9,000
DS4_v2	450 Mbps	DS13_v2	250 Mbps	30,000
DS5_v2	600 Mbps	DS14_v2	400 Mbps	30,000

Please refer to Amazon Web Services and Microsoft Azure Marketplaces for product ordering and fulfillment.

Model Specifications: SteelConnect Switch

Model	SDI-S12 POE+	SDI-S24 POE+	SDI-S48 POE+
Use Case	Small branch office or retail	Medium branch office	Medium and large branch
Performance	30 Gbps switching capacity Non-blocking fabric Ultra-low latency	70 Gbps switching capacity Non-blocking fabric Ultra-low latency	130 Gbit/s switching capacity Non-blocking fabric Ultra-low latency
Interfaces	12x GbE PoE+ ports 4x GbE SFP ports	24x GbE PoE+ ports 4x 10 GbE SFP+ ports OLED status display	48x GbE PoE+ ports 4x 10 GbE SFP+ ports 2x QSFP ports (on the rear) Stacking of no more than 3 S48 switches is recommended OLED status display
AC/DC Power	150W PoE budget 180W built-in power supply 100-240V 50/60Hz AC	270W PoE budget 300W built-in power supply 100-240V 50/60Hz AC	550W PoE budget 2x 600W built-in power supply (redundant and hot-swappable) 100-240V 50/60Hz AC
Power (Watts)	12.5	16.7	42.0
BTU	42.7	57.0	143.3
Physical Design	Industrial design Desktop/wall mountable 1U rackmount kit	Industrial design 1U rackmount kit	Industrial design 1U rackmount kit
Operating Acoustic Noise (Typical)	N / A (fanless)	15.3 dB (10% fan duty)	50 dB (50% fan duty)
Relative Humidity	10-90% non-condensing for both storage and operating conditions	10-90% non-condensing for both storage and operating conditions	10-90% non-condensing for both storage and operating conditions
System Dimensions	30.6 x 21.9 x 4.4 cm (12.0 x 8.6 x 1.7 in)	44.1 x 30.5 x 4.4 cm (17.4 x 12.0 x 1.7 in)	44.1 x 45.0 x 4.4 cm (17.4 x 15.9 x 1.7 in)
System Weight	2 kg (4.41 lb)	4.95 kg (10.91 lb)	5.95 kg (13.11 lb)
Packaged Dimensions	59.9 x 53.3 x 14 cm (23.58 x 20.98 x 5.51 in)	59.9 x 53.3 x 14 cm (23.58 x 20.98 x 5.51 in)	66.6 x 53.3 x 14 cm (26.22 x 20.98 x 5.51 in)
Packaged Weight	6.5 kg (14.4 lb)	8.4 kg (18.6 lb)	13.1 kg (28.9 lb)
Temperature Range	Operating: 0-45°C (32-113°F) Storage: -20-60°C (-4-140°F)	Operating: 0-45°C (32 -113°F) Storage: -20 to 60°C (-4-140°F)	Operating: 0-45°C (32-113°F) Storage: -20-60°C (-4-140°F)

Model Specifications: SteelConnect Access Point

Model	SDI-AP5	SDI-AP5r
Radio Specification	1x 802.11 g/n radio on 2.4 GHz 1x 802.11 a/n/ac radio on 5 GHz 1750 Mbps max rate 3x3 MIMO with 3 spatial streams Internal 3D sectorized antenna array 3x 4 dBi on 2.4 GHz 3x 5 dBi on 5.0 GHz	1x 802.11 g/n radio on 2.4 GHz 1x 802.11 a/n/ac radio on 5 GHz 1750 Mbps max rate 3x3 MIMO with 3 spatial streams Omni-directional antennas (N-Type) 3x 5 dBi on 2.4 GHz 3x 7 dBi on 5 GHz
Interface	1x GbE port	2x GbE ports
AC/DC Power	802.3 at Power-over-Ethernet 12V/2A DC power adapter (optional)	802.3 at Power-over-Ethernet 24W PoE Injector (optional)
Power (Watts) with Power Adapter	15.0	N / A
BTU with Power Adapter	51.2	N / A
Power (Watts) PoE	19.0	36.0
BTU PoE	64.8	122.8
Physical Design	Industrial design Snapdisc mount Desktop/wall/ceiling mountable	Industrial design Wall pole mountable IP68-rated waterproof housing
Operating Acoustic Noise (Typical)	N / A (fanless)	N / A (fanless)
Relative Humidity	10-90% non-condensing for both storage and operating conditions	10-90% non-condensing for both storage and operating conditions
System Dimensions	18.9 x 21.0 x 4.5 cm (7.44 x 8.26 x 1.77 in)	28.5 x 21.8 x 5.3 cm (11.22 x 8.58 x 2.10 in)
System Weight	0.9 kg (2.0 lb)	4 kg (8.8 lb)
Packaged Dimensions	26.0 x 26.0 x 6.5 cm (10.24 x 10.24 x 2.56 in)	39.0 x 26.0 13.0 cm (15.35 x 10.24 x 5.12 in)
Packaged Weight	1.04 kg (2.3 lb)	4.2 kg (9.2 lb)
Temperature Range	Operating: 0-40°C (32-104°F) Storage: -20-60°C (-4-140°F)	Operating: -20-70°C (-4-158°F) Storage: -30-80°C (-22-176°F)

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