

SteelConnect EX

Riverbed® SteelConnect™

Model Specifications

SteelConnect EX

	Small Branch	Mid-Size Branch				Large Branch	Data Center
Model	EX 385	EX 485	EX 685	EX 580	EX 780	EX 3080	EX 6080
Profile	Desktop					Rack mount: 1U	Rack mount: 2U
Throughput ¹							
Routing	400 Mbps	2.5 Gbps	3.75 Gbps	3 Gbps	9 Gbps	10 Gbps	26.2 Gbps
NGFW Direct to Internet (DIA)	250 Mbps	1.35 Gbps	2.8 Gbps	2.45 Gbps	6 Gbps	8.4 Gbps	20 Gbps
SD-WAN DIA	250 Mbps	1.35 Gbps	2.8 Gbps	2.45 Gbps	6 Gbps	8.4 Gbps	25 Gbps
SD-WAN Site-to-Site VPN	150 Mbps	800 Mbps	1.5 Gbps	1.8 Gbps	4 Gbps	5 Gbps	22.6 Gbps
NGFW + AV with SD-WAN DIA	-	250 Mbps	400 Mbps	820 Mbps	1.9 Gbps	2.5 Gbps	8.3 Gbps
NGFW + IPS with SD-WAN DIA	-	200 Mbps	250 Mbps	280 Mbps	700 Mbps	920 Mbps	4.3 Gbps
NGFW + UTM with SD-WAN DIA	-	150 Mbps	200 Mbps	240 Mbps	610 Mbps	820 Mbps	3.4 Gbps
SD-WAN System Storage	32 GB SSD	64 GB SSD	128 GB SSD	1 TB	1 TB	1 TB	480 GB SSD
WAN Optimization Data Store Capacity	-	-	30 GB SSD	-	240 GB SSD	2x 240 GB SSD ²	2x 960 GB SSD ²
Redundant Drives	-	-	-	-	-	Yes	Yes
RAM	4-16 GB	8-16 GB	16 GB	16 GB	16 GB	24 GB	96 GB
CPU Cores	2	4	8	4	6	8	20
uCPE Capable ³	No	No	Yes	No	Yes	Yes	Yes
WAN Optimization Capable	No	No	Yes ⁴	No	Yes	Yes	Yes ⁵
Max WAN Op throughput with SD-WAN	No	No	50 Mbps	No	50 Mbps	100 Mbps	200 Mbps
LTE Capable	Yes	Yes	Yes	No	No	No	No
Wi-Fi Capable	Yes	Yes	Yes	No	No	No	No

1. The performance numbers are based on Riverbed recommended configurations and traffic conditions. The Routing and SD-WAN site-to-site performance is measured using IMIX packet size mix. The DIA and NGFW performance is measured with 1MB response for HTTP traffic.

2. One drive is allocated for redundancy.

3. Support for uCPE to run third party services such as WAN optimization, requires a minimum of 6 CPU Cores. Check documentation for supported VNFs.

4. Supported through model VCX-50 on RiOS 9.12.1 or higher.

5. Supported through model VCX-70 on RiOS 9.12.1 or higher.

Riverbed® SteelConnect™

Power and Physical Specifications

SteelConnect EX

	Small Branch	Mid-Size Branch	
Model	EX 385	EX 485	EX 685
Expansion Slot (PCI-e)	N / A		
Interfaces	4x Ethernet RJ-45 2x SFP		
Wireless	2X Configurable slots (LTE-LTE or LTE-Wi-Fi) Up to 2X internal Cat-6 LTE modems Built-in GPS		
Wi-Fi	Dual band 802.11ac, 512 clients, 16 SSIDs		
BLE	1 (for zero touch provisioning)		
Management Ports	1x RJ45 (RS 232)/GbE 2x USB 2.0		
Hardware Security	TPM 2.0		
Dual Power Supplies	N / A		
Power [Watts] (Typical – Input)	External AC PSU (110 to 240V, 50 to 60 Hz)		
Temperature ¹	0 to 35 °C / 32 to 95°F (Operating) -20 to 70°C / -4 to 158°F (Storage)		
Relative Humidity ²	10% to 85% (Operating and Storage)		
Operating Acoustic Noise (Typical)	0 dBm		
System Dimensions (LxWxH) ³	8.75 x 13.25 x 1.75 in 222.2 x 336.5 x 44.5 mm		
Packaging Dimensions	16.875 x 12.25 x 7 in 428.6 x 311.1 x 177.8 mm		
Weight (Without Packaging)	5.84 lbs 2.65 kg		
Mounting Bracket	Ceiling and Rack mount		

Power and Physical Specifications

SteelConnect EX

	Mid-Size Branch		Large Branch	Data Center
Model	EX 580	EX 780	EX 3080	EX 6080
Expansion Slot (PCI-e)	N / A		1	2
Interfaces	8x Ethernet RJ-45 2x SFP+		8x Ethernet RJ-45 4x SFP+	2x Ethernet RJ-45 (1 or 10 Gbps) 8x SFP+
Management Ports	2x RJ-45 1x USB 3.0 Type A 1x USB 3.0 Type C			2x RJ-45 10 GbE 2x USB 3.0 TypeA 1x DB9
Power Supply	1x 200 W		2x 550 W	2x 770 W
Power [Watts] (Typical)	37	60	70	248 - 258 W
BTU	128	205	242	879 - 944 W
Temperature ¹	0 to 45°C / 32 to 113°F (Operating) -40 to 65°C / -40 to 149°F (Storage)			0 to 40°C / 32 to 104°F (Operating) ⁴ -40 to 60°C / -40 to 140°F (Storage) ⁵
Relative Humidity ²	20% to 80% non-condensing (Operating) 10% to 95%, non-condensing (Storage)		20% to 80%, non-condensing (Operating) ⁴ 10% to 95%, non-condensing (Storage) ⁵	40-90%, non-condensing at 40°C
Operating Acoustic (Typical)	45 dBA		45 dBA	56 dB
System Dimensions (LxWxH) ³	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	27.56 x 17.32 x 3.43 in 700 x 440 x 87 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	36 x 24 x 12 in 914.4 x 609.6 x 304.8 mm
Weight (Without Packaging)	6 lbs 2.7 kg		27 lbs 12.25 kg	51 lbs 23 kg
Mounting Bracket	Included, Spare part RMK-4-DT		Included, Spare part RMK-4-3080	Included, Spare Part 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 to 35°C / 77 to 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.

Virtual Machine Specifications for Virtual SteelConnect EX

Virtual Machine Minimum Requirements for Expected Performance

vCPU	4	8
Memory	8 GB	16 GB
Maximum Performance (IMIX) [*]	2.2 Gbps	5.8 Gbps
Supported Hypervisors	ESXi, KVM	
Supported public cloud	AWS, Azure	
Network I/O	SR-10 V	
Recommended host settings	Intel Xeon® CPU E5-2667 v2 @3.3 GHz	

*Listed performance figures are with SR-IOV configured for SteelConnect EX Virtual Machine.

IMIX Distribution

Frame Size	66	78	218	594	1,354
Percentage	45	8	8	2	16
Weight	45	8	8	2	16

LTE Module Specifications for x85 Models

The integrated LTE Module is capable of CAT 6 LTE Advanced connectivity. It provides downlink performance of up to 300 Mbps and uplink performance of up to 50 Mbps. With Carrier Aggregation, LTE Advanced delivers 2x the bandwidth of LTE. The appliances come equipped with 2 nano-SIM card slots, each SIM slot maps to a specific radio module.

The supported mobile network and frequency band coverage by each orderable modem is listed in the specifications table below. Choose the right modem type when ordering.

Brand	Description	Frequencies/MHz	Americas and EMEA Modem	APAC Modem
1	IMT Core Band	1920-1980, 2110-2170	WECMA, FDD LTE	WECMA, FDD LTE
2	PCS 1900	1850-1910, 1930-1990	WECMA, FDD LTE	
3	GSM 1800	1710-1785, 1805-1880	WECMA, FDD LTE	FDD LTE
4	AWS	1710-1755, 2110-2155	WECMA, FDD LTE	
5	850 (US, Korea etc.)	824-849, 869-894	WECMA, FDD LTE	WECMA, FDD LTE
6	850 (Japan #1)	830-840, 875-885		WECMA
7	IMT Extension	2500-2570, 2620-2690	FDD LTE	FDD LTE
8	GSM 900	880-915, 925-960	WECMA, FDD LTE	WECMA, FDD LTE
9	1700 (Japan #2)	1749.9-1784.9, 1844.9-1879.9		WECMA
11	Lower PDC	1427.9 – 1447.9, 1475.9 – 1495.9		FDD LTE
12	US 700	699-716, 729-746	FDD LTE	
13	US 700	777-787, 746-756	FDD LTE	
17	US 700	704-716, 734-746		
18	850 (Japan #4)	815-830, 860-875		FDD LTE
19	850 (Japan #5)	830-845, 875-890		WECMA, FDD LTE
20	800 Digital Dividend	832-862, 791-821	FDD LTE	
21	1500 (Japan #6)	1447.9-1462.9, 1495.9-1510.9		FDD LTE
25	Extended PCS	1850-1915, 1930-1995	FDD LTE	
26	Extended CLR	814-849, 859-894	FDD LTE	
28	APAC	703-748, 758-803		FDD LTE
29	Lower SMH Blocks	N / A, 716 – 728	FDD LTE	
30	WCS Blocks A/B	2305-2315, 2350-2360	FDD LTE	
38	IMT-E	2570-2620		TDD LTE
39	China TDD	1880-1920		TDD LTE
40	China TDD	2300-2400		TDD LTE
41	BRS / EBS	2496-2690	TDD LTE	TDD LTE
125	WCS Blocks C/D	2315-2318, 2347-2350		

Cellular Bands	LTE for NA/EMEA (-LA)	LTE for APAC (-LB)
	FDD/TDD LTE (Cat-6)	FDD/TDD LTE (Cat-6)
	1-5,7,8,12,13,20,25,26,29,30,41	1,3,5,7,8,18,19,21,28,38,39,40,41
	Carrier Aggregation	Carrier Aggregation
	1+8; 2+(2,5,12,13,29); 3+(7,20); 4+(4,5,12,13,29); 7+(7,20); 12+30;5+30;41+41	1+(8,18,19,21); 3+(5,7,19,28); 7+(5,7,28); 19+21, 38+38, 39+39, 40+40, 41+41
	DC-HSPA+ (42/5.76 Mbps)	DC-HSPA+ (42/5.76 Mbps)
1,2,3,4,5,8	1,5,6,8,9,19 TD-SCDMA 39	

Wi-Fi Specifications for x85 Models

The integrated WLAN access point (AP) can operate simultaneously at 2.4 GHz and 5 GHz and support the latest Wi-Fi 6 standards. This WLAN AP supports 802.11a/b/g/n/ac Wave 2 and 20/40/80 MHz wide channels.

TX Sensitivity

Protocol	Data Rate (Mbps)	Modulation	Coding Rate	Conductive TX Power (dBm)					Conductive TX EVM (db)
				2.4 GHz		5 GHz			
				20 MHz	40 MHz	20 MHz	40 MHz	80 MHz	
802.11b	1			17 +/- 2dB	N / A	N / A	N / A	N / A	-10
	2			17 +/- 2dB					-10
	5.5			17 +/- 2dB					-10
	11			17 +/- 2dB					-10
802.11a/g	6	BPSK	1/2	17 +/- 2dB	N / A	18 +/- 2dB	N / A	N / A	-5
	9	BPSK	3/4	17 +/- 2dB		18 +/- 2dB			-8
	12	QPSK	1/2	17 +/- 2dB		18 +/- 2dB			-10
	18	QPSK	3/4	17 +/- 2dB		18 +/- 2dB			-13
	24	16-QAM	1/2	17 +/- 2dB		18 +/- 2dB			-16
	36	16-QAM	3/4	17 +/- 2dB		17 +/- 2dB			-19
	48	64-QAM	2/3	16 +/- 2dB		16 +/- 2dB			-22
	54	64-QAM	3/4	15 +/- 2dB		15 +/- 2dB			-25
802.11n/ac	MCS0	BPSK	1/2	17 +/- 2dB	17 +/- 2dB	18 +/- 2dB	18 +/- 2dB	18 +/- 2dB	-5
	MCS1	QPSK	1/2	17 +/- 2dB	17 +/- 2dB	18 +/- 2dB	18 +/- 2dB	18 +/- 2dB	-10
	MCS2	QPSK	3/4	17 +/- 2dB	17 +/- 2dB	18 +/- 2dB	18 +/- 2dB	18 +/- 2dB	-13
	MCS3	16-QAM	1/2	17 +/- 2dB	17 +/- 2dB	18 +/- 2dB	18 +/- 2dB	18 +/- 2dB	-16
	MCS4	16-QAM	3/4	17 +/- 2dB	17 +/- 2dB	17 +/- 2dB	17 +/- 2dB	17 +/- 2dB	-19
	MCS5	64-QAM	2/3	16 +/- 2dB	16 +/- 2dB	16 +/- 2dB	16 +/- 2dB	16 +/- 2dB	-22
	MCS6	64-QAM	3/4	15 +/- 2dB	15 +/- 2dB	15 +/- 2dB	15 +/- 2dB	15 +/- 2dB	-25
	MCS7	64-QAM	5/6	14 +/- 2dB	14 +/- 2dB	15 +/- 2dB	15 +/- 2dB	15 +/- 2dB	-27
	MCS8	256-QAM	3/4	N / A	N / A	14 +/- 2dB	14 +/- 2dB	14 +/- 2dB	-30
	MCS9	256-QAM	5/6	N / A	N / A	N / A	14 +/- 2dB	14 +/- 2dB	-32

RX Sensitivity

				Conductive		
				Minimum RX Sensitivity (dBm)		
Protocol	Data Rate (Mbps)	Modulation	Coding Rate	20 MHz	40 MHz	80 MHz
802.11b	1			-95	N / A	
	2			-93		
	5.5			-92		
	11			-89		
802.11a/g	6	BPSK	1/2	-89	N / A	
	9	BPSK	3/4	-88		
	12	QPSK	1/2	-87		
	18	QPSK	3/4	-85		
	24	16-QAM	1/2	-82		
	36	16-QAM	3/4	-79		
	48	64-QAM	2/3	-74		
	54	64-QAM	3/4	-73		
802.11n/ac	MCS0	BPSK	1/2	-89	-86	-83
	MCS1	QPSK	1/2	-85	-82	-79
	MCS2	QPSK	3/4	-83	-80	-77
	MCS3	16-QAM	1/2	-79	-76	-73
	MCS4	16-QAM	3/4	-76	-73	-70
	MCS5	64-QAM	2/3	-72	-69	-66
	MCS6	64-QAM	3/4	-71	-68	-65
	MCS7	64-QAM	5/6	-70	-67	-64
	MCS8	256-QAM	3/4	-67	-64	-62
	MCS9	256-QAM	5/6	N / A	-61	-58

Radio Specifications

Features	Description
Number of Radios	2
Radio Capabilities	Radio 1: 2.4 GHz 802.11b/g/n (2x2:2 streams) 20/40 MHz (64 QAM) Radio 2: 5 GHz 802.11 a/n/ac (2x2:2 streams) 20/40/80 MHz (256 QAM)
Maximum Data Rate	Radio 1: Up to 300 Mbps Radio 2: Up to 867 Mbps
Supported Frequency Bands*	2.412–2.462 5.180–5240 5.260 –5.320 5.500–5.700 5.745– 5.825
Max TX Power	20 dBm for 2.4 GHz 21 dBm for 5 GHz
Per-Radio Client Support	256 client per Radio (Max 512 over both Radios)

Antenna

Number of Antennas	2
Antenna Type/Peak Gain	External: Peak gain of 3.1 dBi at 2.4 GHz and 4.39 dBi at 5 GHz

802.11 Capabilities

802.11	802.11a/b/n/ac wave2
EAP Types	EAP-TLS, EAP-TTLS/MSCHAPv2, EAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST
Authentication and Security	WPA and WPA2 with 802.11x (Enterprise) or pre-shared key (PSK), WEP, captive portal, MAC blacklist/whitelist, 802.11i, AES-CCMP, TKIP, WAPI
SSID Type	Local bridge

802.11 Features

802.11ac MU-MIMO Wave 2	Yes; 2x2:2
Transmit Beam Forming (TxBF)	Yes
Low-Density Parity Check (LDPC) Encoding	Yes
Maximum Likelihood Demodulation (MLD)	Yes
Maximum Ratio Combining (MRC)	Yes
A-MPDU and A-MSDU Packet Aggregation	Yes
MIMO Power Save	Yes
Short Guard Interval	Yes

Certifications

DFS	FCC, CE, CB (IEC), Japan
-----	--------------------------

*Varies depending on the country specific restrictions.

Network and Security Functions

Features	Description				
DHCP IPv4 and IPv6	Client, Relay and Server				
Routing IPv4 and IPv6	Static routing, BFD, VRRP, VRF/Multi-VRF, RIP v1/2, OSPF, BGP, MP-BGP+ (MPLS and IPv6 extensions), ECMP, Route redistribution, BGP Route-aggregation				
Multicast	PIM SM, PIM SM with neighbor support on both LAN and WAN interfaces, PIM SSM, PIM SM Bootstrap RP, PIM Rendezvous-Point, IGMP v2/v3				
Policy Based Forwarding (L3-L7)	<table border="1"> <tr> <td>Match Conditions</td> <td>Source Address, Source Zone, Source Region, Destination Address, Destination Zone, Destination region, Application of stream, Schedule, IP version, IP-Flags, DSCP, IEEE 802.1P, MOS support</td> </tr> <tr> <td>Actions</td> <td>Permit, Drop, Set Nexthop</td> </tr> </table>	Match Conditions	Source Address, Source Zone, Source Region, Destination Address, Destination Zone, Destination region, Application of stream, Schedule, IP version, IP-Flags, DSCP, IEEE 802.1P, MOS support	Actions	Permit, Drop, Set Nexthop
Match Conditions	Source Address, Source Zone, Source Region, Destination Address, Destination Zone, Destination region, Application of stream, Schedule, IP version, IP-Flags, DSCP, IEEE 802.1P, MOS support				
Actions	Permit, Drop, Set Nexthop				
QoS	Whitelist/Blacklist on any L2-L4 field, Tenant level policing, Control plane protection, Traffic Classification and Profiles, DSCP/802.1P Marking, Rate-Limiting, Scheduling, Queuing, Shaping, HQoS: PIR and CIR				
CG-NAT	Static NAT, Dynamic NAT, NAT, Destination NAT, Static NAT with Port Translation, Inter-Tenant NAT, ALG support: FTP, TFTP, PPTP, SIP, ICMP, IKE, Endpoint Independent Mapping (EIM), Endpoint Independent Filtering (EIF), Port Parity, Port Block Allocation (PBA), Random Port Allocation (RPA), Syslog and IPIX logging				
Stateful Firewall	Zone-based, Address Objects, Address Groups, Rules, Policies, DDoS (TCP/UDP/ICMP Flood), Syn-Cookies, Port Scans, Host Scans, ALG support: SIP, FTP, PPTP, TFTP, ICMP				
Application Visibility	Identify more than 3600+ applications and protocols, Application group support, Application filter support, Application visibility and log support, 150+ codecs				
Next-Generation Firewall	Policy Match Triggers: Applications, App filters, App Groups, URL Categories, Geo Location, Application Identity (AppID) based policy rules, Application Groups and Filters, Packet capture on AppID, IP Blacklisting, Whitelisting, Customer App-ID signatures, SSL Certificate-based protection, Expired certificates, Untrusted CAs, Unsupported cyphers and key lengths				
Anti-Virus	Network/flow based protection with auto-signature updates. HTTP, FTP, SMTP, POP3, IMAP, MAPI support, 35+ file types supported (exe, dll, office, pdf and flash file types), Decompression, Storage profile, Auto signature updates				
URL Categorization and Filtering	URL categories and reputation, including customer-defined, Cloud-based lookups, Policy trigger based on URL category, URL profile (blacklist, whitelist, category reputation), Captive portal response including customer defined, Actions include block, inform, ask, justify, and override				
NG-IPS	Default and customer defined signatures and profiles, Snort rule formats, L7 DDoS, Layer 7 Anomaly detection, Lateral movement detection and prevention, Support for JavaScript attacks, Security package with incremental updates				
SD-WAN	Secure, zero touch branch provisioning, Template-based policies with parameterization, Centralized route and policy enforcement, L7 Application SLA enforcement, SLAs with QoS, Intelligent path selection – default and user-defined, Dynamic bandwidth measurement of SD-WAN paths, Support Active/Active and load balancing of Transport, Overlay encapsulation: MPLS over VXLAN, IPsec over VXLAN, Redundant SD-WAN controller, Integration and support for 3rd party legacy appliances, Flexible topology support – Full-Mesh, Partial-Mesh, Hub-Spoke, Controller behind branch, branch-behind-branch, Spoke-hub-hub-spoke, Custom				
Advanced SD-WAN Features	Packet Striping for best throughput across bundle of low speed interfaces, Packet Cloning / De-cloning for replicating, important flows to ensure best performance and availability, Forward Error Correction to restore traffic in lossy and over-congested links, MOS Based Traffic Steering to measure VoIP flows quality and to steer VoIP flows to achieve best voice session qualities, Cloud Provider DIA Traffic Optimizations; Probe based, as well as Inline Traffic Measurements and more				
IPsec VPN	Site-to-site, route/policy-based VPN, IKEv1, IKEv2, DPD, PFS, ESP and ESP-HMAC support, Symmetric Cipher support (IKE/ESP): AES-128 and AES-256 modes: CBC, CNTR, XCBC, GCM, Pre-shared and PKI authentication with RSA certificates, Diffie-Hellman key exchange (Group 1,2,5), Per-tenant and VRF aware, MD5 and SHA1 based HMAC				
Load balancing	Virtual Server support, Load Balancing algorithms: RR, WRR, Src. IP, Dest. IP, IP Hash, Least connections, Layer 4 load balancing, monitoring, persistence (Src, Dst, Src-Dest, Mac), Deployment modes: Transparent, Routed and Direct Server Return				
SSL Inspection	HTTPS proxy (forward and reverse), SSL v3, TLS 1.2 proxy, Captive Portal for HTTPS requests				
DNS Proxy	DNS Split Proxy, Transparent Proxy				
User and Group Level Authentication	Support for Active Directory, LDAP, Radius, Kerberos, SAML, Captive Portal Form for LDAP				
Service Function Chaining (SFC)	Encapsulation and tagging types: VLAN, VXLAN, MPLS, MPLS over GRE, NSH, SFC				

SteelConnect EX Software Licenses

SteelConnect EX offers three tiers of software licenses to meet various networking requirements.

These software tiers build on each other, starting from essential SD-WAN capabilities to advanced feature set.

The tiers are:

Secure SD-WAN Essentials

This license tier can be considered for a branch router replacement and includes features such as:

- Basic or Advanced core routing functionality
- Includes Layer-4 Stateful Security features like DOS Protection and SFW
- IPv4 and IPv6 support and many other networking essentials
- SD-WAN Full mesh or Hub-and-Spoke; Secure dynamic and encrypted overlays
- Application detection and visibility
- Application QoS
- Branch security (URL and IP filtering, blocking web access, and more)

Secure SD-WAN Standard

This tier includes enhanced SD-WAN features. It includes:

- Advanced SD-WAN capabilities
- For customers who require superior voice service (FEC, cloning etc.)
- Provide User/User group-based traffic engineering and SLA policy

Secure SD-WAN Advanced*

This tier is designed to provide advanced next-generation security features, including:

- Next generation intrusion prevention system
- Anti-Virus
- SSL inspection

*Not available on SteelConnect EX 385

WAN Optimization Licenses

To enable WAN Optimization, VCX license is required. WAN Optimization can be added to any of the SD-WAN software tiers. Refer to Riverbed® SteelHead™ specsheet for WAN Optimization licensing options.

SteelConnect EX Software Licensing SKUs

The software license tiers are available at varying bandwidth levels, ranging from 10 Mbps to 10 Gbps.

Ordering Guide

SDEX-00385-B010	SteelConnect EX 385 for small branch without any add-on options
SDEX-00385-B030	SteelConnect EX 385 for small branch with LTE and Wi-Fi AP for Americas and EMEA
SDEX-00385-B040	SteelConnect EX 385 for small branch with LTE and Wi-Fi AP for APAC
SDEX-00485-B010	SteelConnect EX 485 for medium branch without any add-on options
SDEX-00485-B030	SteelConnect EX 485 for small branch with LTE and Wi-Fi AP for Americas and EMEA
SDEX-00485-B040	SteelConnect EX 485 for small branch with LTE and Wi-Fi AP for APAC
SDEX-00685-B010	SteelConnect EX 685 for medium branch without any add-on options
SDEX-00685-B030	SteelConnect EX 685 for medium branch with LTE and Wi-Fi AP for Americas and EMEA
SDEX-00685-B040	SteelConnect EX 685 for medium branch with LTE and Wi-Fi AP for APAC
SDEX-00580-B010	SteelConnect EX 580 for medium size branch
SDEX-00780-B010	SteelConnect EX 780 for medium size branch with optional Application Acceleration support
SDEX-03080-B010	SteelConnect EX 3080 for large branch or hub/aggregation site with optional Application Acceleration support
SDEX-06080-B010	SteelConnect EX 6080 for data center and large hub/aggregation site
SDEX-DIRECTOR-080-B010	SteelConnect Director appliance to manage SteelConnect EX based enterprise SD-WAN
SDEX-ANALYTICS-080-B010	SteelConnect Analytics appliance to gain insights into SteelConnect EX based enterprise SD-WAN
SEC-SDW-ESSENTIALS-xxx	Bandwidth based Secure SD-WAN Essentials license (where xxx represents the bandwidth level 10 Mbps to 10 Gbps)
SEC-SDW-STANDARD-xxx	Bandwidth based Secure SD-WAN Standard license (where xxx represents the bandwidth level 10 Mbps to 10 Gbps)
SEC-SDW-ADVANCED-xxx	Bandwidth based Secure SD-WAN Advanced license (where xxx represents the bandwidth level 10 Mbps to 10 Gbps)
VCX-xxx-SUB-Tx	WAN Optimization licenses for SteelConnect EX based SD-WAN. Refer to SteelHead specsheet for details

About Riverbed

Riverbed enables organizations to maximize visibility and performance across networks, applications and end-user devices, so they can fully capitalize on their cloud and digital investments. Riverbed solutions enable organizations to visualize, optimize, remediate and accelerate the performance of any network for any application, while supporting business objectives to mitigate cyber security risk and enhance the digital experience for all end-users. Riverbed offers two best-in-class product lines: end-to-end visibility – including NPM, APM and EUEM – that delivers actionable insights; and network and acceleration solutions, including application acceleration (SaaS, client and cloud acceleration), WAN optimization, and enterprise-grade SD-WAN. Riverbed's 30,000+ customers include 95% of the *Fortune* 100. Learn more at riverbed.com.

