

SteelCentral Product Family Specifications

Riverbed® SteelCentral™ NetProfiler Solutions

Product Specifications

SteelCentral NetProfiler

Model	SCNP-02270 Series ⁵					SCNP-04270 Series ^{7,8,9}			SCNP-04270 Series ^{7,8,9} Expansion	
Configuration	F1	F2	F3	F4	F5	SCNP-04270-UI	SCNP-04270-DB	SCNP-04270-AN	SCNP-04270-EX	SCNP-04270-DP
Deduplicated Flow Capacity (flows per minute) ¹	200,000	400,000	600,000	800,000	1,000,000	N / A	N / A	1,000,000	1,000,000	N / A
Raw Flow Capacity (flows per minute) ¹⁰	2,000,000	4,000,000	6,000,000	8,000,000	10,000,000	N / A	N / A	10,000,000	10,000,000	N / A
Disk Capacity ²	24TB					960GB	960GB	48TB	48TB	2TB
Optional Fiber Channel SAN Support ³	✓					-	-	✓	✓	-
RAID	RAID 1 / RAID 10					RAID 1	RAID 1	RAID 1 / RAID 10	RAID 1 / RAID 10	RAID 1
Front-Swappable Disks ⁴	12					2	2	12	12	2
RAM	64GB					32GB	32GB	64GB	64GB	64GB
Serial Port (RJ-45 connector)						✓				
Primary SteelCentral Management Port (10/100/1000 RJ45)						✓				
Flow as Data Source ⁵	Requires SteelCentral Flow Gateway									

- Flow Capacity can be expanded up to the amount listed.
- Raw Disk Capacity does not take into account disk formatting, RAID overhead, software installation, or OS usage.
- With purchase of NIC-1-HBA-2FC.
- Hot swappable disks.
- Accepts NetFlow (V1, V5, V7 and V9), Enhanced NetFlow, IPFIX, cFlow, Cisco NBAR and NBAR2, Cisco MediaNet, Cisco ASA NSEL, Citrix AppFlow, sFlow V2 and V5, J-Flow, Packeteer FDR, Palo Alto Networks, and SteelFlow from SteelHead, NetShark, AppResponse, and SteelConnect appliances.
- Each Flow Gateway model can report to up to two NetProfilers and forward flow to two third-party flow collectors.
- SCNP-4270-AN/EX equipped with RAID 1 / RAID 10 (48TB); SCNP-4270-UI/DB equipped with RAID 1 (960GB SSDs).
- CNP-4270-AN/EX equipped with 12 front-swappable; SCNP-4270-UI/DB equipped with two front-swappable disks.
- SCNP-4270 system includes-SCNP-4270-UI, SCNP-4270-DB, and SCNP-4270-AN. Up to 19 SCNP-4270-EX expansion modules may be added to each SCNP-4270 system. Each additional SCNP-4270-EX adds 1M de-duplicated FPM. Maximum of 20M de-duplicated flows/min supported with version 10.11. SCNP-4270-DP is required with addition of fifth SCNP-4270-EX.
- A flow reported by a single network interface is a raw flow. NetProfiler will de-duplicate up to 10 individual interfaces reporting the same flow into 1 de-duplicated flow.

SteelCentral NetProfiler Solutions

Product Specifications

SteelCentral Flow Gateway

Model	SCFG-02270 Series ^{11,12}							
Configuration	F1	F2	F3	F4	F5	F6	F7 ¹²	F8
Flow Capacity (flows per minute) ¹	200,000	400,000	600,000	800,000	1,000,000	2,000,000	3,000,000	4,000,000
Raw Flow Capacity	2,000,000	4,000,000	6,000,000	8,000,000	10,000,000	20,000,000	30,000,000	40,000,000
Disk Capacity ²	2TB							
Optional Fiber Channel SAN Support ³	-							
RAID	RAID 1							
Front-Swappable Disks ⁴	2							
RAM	32GB							
Serial Port (RJ-45 connector)	✓							
Primary SteelCentral Management Port (10/100/1000 RJ45)	✓							
Flow as Data Source ⁵	✓							

Power and Physical Specifications

SteelCentral NetProfiler

Model	SCNP-02270 Series ⁶					SCNP-04270 Series ^{7,8,9}			SCNP-04270 Series ^{7,8,9} Expansion	
Configuration	F1	F2	F3	F4	F5	SCNP-04270-UI	SCNP-04270-DB	SCNP-04270-AN	SCNP-04270-EX	SCNP-04270-DP
Dual Power Supplies (redundant) ¹⁴	✓					✓			✓	
Power [Watts] (typical)	305W					128W		308W	308W	128W
BTU	1039					435		1049	1049	435
Temperature ¹⁵	10-35°C (50-95°F)									
Relative Humidity (shipping)	50-90%, non-condensing with a maximum wet bulb of 28°C (at temperatures from 25-35°C)									
Operating Acoustic Noise (typical)	7.0 BA (operating condition in typical office ambient temperature: 23 +/- 2°C)									
Rack Size	2U					1U	1U	2U	2U	1U
System Dimension (L x W x H) ¹⁶	707.8 mm (L) x 438 mm (W) x 87.6 mm (H) 27.87"(L) x 17.24"(W) x 3.45"(H)					640.43 mm (L) x 438 mm (W) x 43.2 mm (H) 25.21"(L) x 17.24"(W) x 1.7"(H)		707.8 mm (L) x 438 mm (W) x 87.6 mm (H) 27.87"(L) x 17.24"(W) x 3.45"(H)		640.43 mm (L) x 438 mm (W) x 43.2 mm (H) 25.21"(L) x 17.24"(W) x 1.7"(H)
Packaging Dimensions	914.4 mm (L) x 609.6 mm (W) x 355.6 mm (H) 36"(L) x 24"(W) x 14"(H)					914.4 mm (L) x 609.6 mm (W) x 330.2 mm (H) 36"(L) x 24"(W) x 13"(H)		914.4 mm (L) x 609.6 mm (W) x 330.2 mm (H) 36"(L) x 24"(W) x 13"(H)		914.4 mm (L) x 609.6 mm (W) x 330.2 mm (H) 36"(L) x 24"(W) x 13"(H)
Weight (without packaging)	54 lbs					24 lbs	24 lbs	54 lbs	54 lbs	27 lbs
Rail Information	Mounting rail kit included Orderable spare part numbers: RMK-1-VRAIL, RMK-1-PRAIL									
RoHS Compliant	✓					✓		✓		✓

11. Requires compatible SFPs.

12. Flow rates shown are available with Flow Gateway 10.0.5 and later releases. Earlier versions had flow limits of 100,000, 200,000, 500,000, 800,000 and 1,400,000 respectively.

13. Requires version 10.9 or higher.

14. 1U models PS are rated for 450W, 2U models PS are rated for 750W.

15. Operating altitude up to 10,000 feet.

16. Length is without bezel, rack ears, cables.

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.

SteelCentral NetProfiler Solutions

Power and Physical Specifications

SteelCentral Flow Gateway

Model	SCFG-02270 Series							
Configuration	F1	F2	F3	F4	F5	F6	F7	F8
Dual Power Supplies (redundant) ¹³	✓							
Power [Watts] (typical)	117W							
BTU	398							
Temperature ¹⁴	10-35°C (50-95°F)							
Relative Humidity (shipping)	50-90%, non-condensing with a maximum wet bulb of 28°C (at temperatures from 25-35°C)							
Operating Acoustic Noise (typical)	7.0 BA (operating condition in typical office ambient temperature: 23 +/- 2°C)							
Rack Size	1U							
System Dimension (L x W x H) ¹⁵	640.43 mm (L) x 438 mm (W) x 43.2 mm (H) 25.21"(L) x 17.24"(W) x 1.7"(H)							
Packaging Dimensions	914.4 mm (L) x 609.6 mm (W) x 330.2 mm (H) 36"(L) x 24"(W) x 13"(H)							
Weight (without packaging)	26 lbs							
Rail Information	Mounting rail kit included Orderable spare part numbers: RMK-1-VRAIL, RMK-1-PRAIL							
RoHS Compliant	✓							

SteelCentral NetShark and SteelCentral AppResponse 11 Solutions

Model Specifications

SteelCentral NetShark and SteelCentral AppResponse 11

Model	2170	4170	6170	8170	Storage Units (for Models 6170/8170)	
					48TB Storage Unit	72TB Storage Unit
Product SKU	SCAN-02170	SCAN-04170	SCAN-06170	SCAN-08170	SCAN-SU-48TB	SCAN-SU-72TB
Storage	8TB	32TB	None (requires attached SCAN-SU-48TB or SCAN-SU-72TB storage unit)	None (requires at least two SCAN-SU-48TB or one SCAN-SU-72TB storage unit)	48TB	72TB
Supported Storage Units	N / A	N / A	Up to 8 ¹	Up to 16 ¹	N / A	N / A
Maximum Storage Capacity	8TB	32TB	576TB	1152TB	48TB	72TB
Capture Disk Capacity ²	2 x 4TB	8 x 4TB	N / A	N / A	12 x 4TB	12 x 6TB
Capture Disk Redundancy	SW RAID level 0	HW RAID level 0 (default), 5, 6	N / A	N / A	HW RAID level 0 (default), 5, 6 ⁵	HW RAID level 0 (default), 5, 6
Operating System Disk Capacity ³	2 x 2TB	4 x 2TB	4 x 2TB	4 x 2TB	N / A	
Operating System Disk Redundancy	✓				N / A	
Operating System	customized Linux-based OS				N / A	
RAM (GB)	32	64		128	N / A	
Available Network Interface Card Slots	1	2		2	N / A	
Available Capture Ports (max) ⁴	4 x 1GbE (copper or fiber) or 2 x 10GbE (fiber)	8 x 1GbE (copper or fiber) or 8 x 10GbE ports (fiber) or 4 x 1GbE (copper or fiber) + 4 x 10GbE (fiber)	8 x 1GbE (copper or fiber) or 8 x 10GbE ports (fiber) or 4 x 1GbE + 4 x 10GbE (fiber) or 2 x 40GbE (fiber)		N / A	
Management Port (10/100/1000 RJ45)	2			2	N / A	

1. All Storage Units on an individual model 6170 or 8170 must be of the same capacity.
2. Raw Disk Capacity. 1TB = 10¹² Bytes. It does not take into account disk formatting or RAID overhead.
3. Raw Disk Capacity. 1TB = 10¹² Bytes. It does not take into account disk formatting or OS usage.
4. Supported NICs- 1GbE-quad port copper; 1GbE-quad port fibre; 10GbE-dual port fibre, 10GbE-quad port fibre, 40GbE-dual port fibre. 40G fibre ports are available with SR4 and LR4 QSFP inserts. 10G fibre ports are available with SR and LR SFP+ inserts (LC connectors). 1G fibre ports are available with SX and LX SFP inserts (LC connectors).
5. RAID 6 is not an option for the model 8170 when metrics priority storage mode is selected.

SteelCentral NetShark and SteelCentral AppResponse 11 Solutions

Power and Physical Specifications

SteelCentral NetShark and SteelCentral AppResponse 11 Solutions

Model	2170	4170	6170	8170	Storage Units (for Model 6170 only)	
					48TB Storage Unit	72TB Storage Unit
Product SKU	SCAN-02170	SCAN-04170	SCAN-06170	SCAN-08170	SCAN-SU-48TB	SCAN-SU-72TB
Dual Power Supplies (redundant)	✓					
Power [Watts] (typical)	135W	318W	259W	420W	217W	254W
BTU	458	1082	881	1432	737	865
Line Power Requirements	90-132V and 180-264V 47-63Hz					
Operating Temperature ⁶	10-35°C (50-95°F)					
Humidity (shipping)	50-90%, non-condensing with a maximum wet bulb of 28°C (at temperatures from 25-35°C)					
Rack Size	1U	2U	2U	2U	2U	2U
System Dimensions (L x W x H) ⁷	640.43 mm (L) x 438 mm (W) x 43.2 mm (H) 25.21"(L) x 17.24"(W) x 1.7"(H)	707.8 mm (L) x 438 mm (W) x 87.6 mm (H) 27.87"(L) x 17.24"(W) x 3.45"(H)			640.3 mm (L) x 438 mm (W) x 87.6 mm (H) 25.21"(L) x 17.24"(W) x 3.45"(H)	
Packaging Dimensions (L x W x H) ⁸	914.4 mm (L) x 609.6 mm (W) x 330.2 mm (H) 36"(L) x 24"(W) x 13"(H)	914.4 mm (L) x 609.6 mm (W) x 355.6 mm (H) 36"(L) x 24"(W) x 14"(H)				
Max Weight (without packaging)	29 lbs	53 lbs	42.5 lbs	43.5 lbs	46 lbs	
Rail Information ⁹	Mounting rail kit included Orderable spare part numbers: RMK-1-VRAIL, RMK-1-PRAIL					
RoHS Compliant	✓					

SteelCentral NetShark Virtual Edition

Model	VSK-00050	VSK-00200	VSK-00400
Product Storage	Up to 50GB	Up to 1TB	Up to 2TB
Hypervisor	VMware ESXi 5.0, 5.1, 5.5, and Microsoft Hyper-V Server 2012 R2		
vCPU	2		
Memory	2GB		
System Disk Space	30GB		
Capture Ports	Up to 4		
Management Ports	2		

6. Operating altitude up to 10,000 feet.

8. Packaging dimensions do not include the pallet on which the unit might be shipped.

7. Length is without bezel or cables.

9. The included rails fit square hole and un-threaded round hole racks.

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SteelCentral AppResponse 11 Virtual

Model Specifications

Model	VSCAN-00100	VSCAN-00500	VSCAN-02000	VSCAN-FLOW
Secondary Storage	Up to 100GB	Up to 2TB	Up to 8TB	Up to 100GB
Hypervisor	VMware ESXi 5.5 and 6.0			
vCPU	4			
Memory	8GB			
System Disk Space	100GB			
Capture Ports	Up to 8			
Management Ports	2			

SteelCentral NetShark Solutions

Power and Physical Specifications

SteelCentral NetShark on SteelHead EX

Model	LIC-RPM-560	LIC-RPM-760	LIC-RPM-1160	LIC-RPM-1260	LIC-RPM-1360
SteelHead EX Model	560	760	1160	1260	1360
SteelHead EX Release	SteelHead EX 3.1 or later				
vCPU	2				
Memory	2GB				
System Disk Space	30GB				
Capture Ports	Up to 2 (AUX, Primary)				

SteelCentral NetShark Virtual on SteelFusion Edge

Model	SCAN-SFED-0020	SCAN-SFED-0030	SCAN-SFED-0040
SteelFusion Edge Model	2100 and 2200	3100	3200 and 5100
SteelFusion Release	SteelFusion 4.0		
vCPU	2		
Memory	2GB		
System Disk Space	30GB		
Capture Ports	Up to 2 (AUX, Primary)		

SteelCentral NetExpress

Model Specifications

SteelCentral NetExpress

Model	SCNE-00470				
Configuration	F1	F2	F3	F4	F5
Flow Capacity (flows per minute) ¹	15,000	30,000	60,000	90,000	120,000
Raw Flow Capacity ⁸	150,000	300,000	600,000	900,000	1,200,000
System Disk Capacity ²	8TB				
Capture Disk Capacity ³	4TB				
RAID	RAID 1 / RAID 0				
Front-Swappable Disks ³	4				
RAM	32GB				
Serial Port (RJ-45 connector)	✓				
Available Traffic Monitoring/Packet Capture Ports	4-port 1GbE copper or 4-port 1GbE fiber SFP or 2-port 10GbE fiber SFP+ ⁶				
Primary SteelCentral Management Port ⁴ (10/100/1000 RJ45)	✓				
Flow as Data Source ⁷	✓				

- Flow capacity can be expanded up to the amount listed.
- Raw Disk Capacity does not take into account disk formatting, RAID overhead, software installation, or OS usage.
- Hot swappable disks.
- 1000/Full connection required in some configurations.
- Packet Analyzer is recommended to access packet data captured by the NetExpress appliance and one concurrent license is included with the appliance for this purpose.

- Requires compatible SFP (SX, LX)/SFP+(SR, LR) inserts.
- Accepts NetFlow (V1, V5, V7, and V9), Enhanced NetFlow, IPFIX, cFlow, Cisco NBAR and NBAR2, Cisco MediaNet, Cisco ASA NSEL, Citrix AppFlow, sFlow V2 and V5, J-Flow, Packeteer FDR, Palo Alto Networks, and SteelCentral Flow from SteelHead appliances.
- A flow reported by a single network interface is a raw flow. NetProfiler will de-duplicate up to 10 individual interfaces reporting the same flow into 1 de-duplicated flow.

SteelCentral NetExpress

Power and Physical Specifications

Model	SCNE-00470⁵
Due Power Supplies (redundant, 450 Watts)	✓
Power (Watts) (typical)	135W
BTU	458
Temperature ⁹	10-35°C (50-95°F)
Relative Humidity (shipping)	50-90%, non-condensing with a maximum wet bulb of 28°C (at temperatures from 25-35°C)
Operating Acoustic noise (typical)	7.0 BA (operating condition in typical office ambient temperature: 23 +/- 2°C)
Rack Size	1U
System Dimensions (L x W x H) ¹⁰	640.43 mm (L) x 438 mm (W) x 43.2 mm (H) 25.21"(L) x 17.24"(W) x 1.7"(H)
Packaging Dimensions	914.4 mm (L) x 609.6 mm (W) x 330.2 mm (H) 36"(L) x 24"(W) x 13"(H)
Max Weight (without packaging)	29 lbs
Rail Information	Mounting rail kit included Orderable spare part numbers: RMK-1-VRAIL, RMK-1-PRAIL
Flow as Data Source ⁷	✓

SteelCentral NetProfiler Virtual Edition

System Requirements

SteelCentral NetProfiler Virtual Edition

Configuration	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11
Flow Capacity	15,000	30,000	60,000	90,000	200,000	400,000	600,000	800,000	1,000,000	2,000,000	3,000,000
Raw Flow Capacity	150,000	300,000	600,000	900,000	2,000,000	4,000,000	6,000,000	8,000,000	10,000,000	20,000,000	30,000,000
Hypervisor	VMware ESXi 6.0 and 6.5			VMware ESXi 6.0 and 6.5			VMware ESXi 6.0 and 6.5				
vCPU	4 CPUs minimum			4 CPUs minimum / 8 CPUs recommended			8 CPUs recommended		8 CPUs minimum / 12 CPUs recommended		12 CPUs minimum / 16 CPUs recommended
	2.6GHz recommended			2.6GHz recommended			2.6GHz recommended				
RAM	8GB minimum / 12GB recommended			12GB minimum / 16GB recommended			16GB minimum / 32GB recommended	32GB minimum / 48GB recommended	48GB minimum / 64GB recommended	64GB minimum / 96GB recommended	
System Disk Space	250GB			250GB			250GB				
Flow Storage Space	250GB minimum / 50TB maximum										
Flow Storage IOPS ¹¹	150 minimum / 500+ recommended			500 minimum / 2,000+ recommended			1,000 minimum / 4,000+ recommended	2,000 minimum / 6,000+ recommended	2,500 minimum / 7,500+ recommended	3,000 minimum / 9,000+ recommended	
Management Ports	2			2			2		2		2

9. Operating altitude up to 10,000 feet.

10. Length is without bezel, rack ears, cables.

11. IOPS is defined as random read input/output operations per second.

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SteelCentral Flow Gateway Virtual Edition, and SteelCentral NetExpress Virtual Edition

System Requirements

SteelCentral Flow Gateway Virtual Edition

Configuration	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Flow Capacity	15,000	30,000	60,000	90,000	200,000	400,000	600,000	800,000	1,000,000	2,000,000	3,000,000	4,000,000
Raw Flow Capacity	150,000	300,000	600,000	900,000	2,000,000	4,000,000	6,000,000	8,000,000	10,000,000	20,000,000	30,000,000	40,000,000
Hypervisor	VMware ESXi 6.0 and 6.5			VMware ESXi 6.0 and 6.5			VMware ESXi 6.0 and 6.5					
vCPU	2 CPUs minimum			2 CPUs minimum / 4 CPUs recommended		4 CPUs recommended		4 CPUs minimum / 8 CPUs recommended		6 CPUs minimum / 8 CPUs recommended		8 CPUs minimum / 12 CPUs recommended
	2.6GHz recommended			2.6GHz recommended		2.6GHz recommended						
RAM	2GB minimum / 4GB recommended			4GB minimum / 8GB recommended		8GB minimum / 16GB recommended		16GB minimum / 24GB recommended	24GB minimum / 32GB recommended	32GB minimum / 48GB recommended	32GB minimum / 48GB recommended	
System Disk Space	50GB											
Flow Storage	50GB											
Management Ports	2			2		2		2		2		2

SteelCentral NetExpress Virtual Edition

Configuration	F1	F2	F3	F4	F5
Flow Capacity	15,000	30,000	60,000	90,000	120,000
Raw Flow Capacity	150,000	300,000	600,000	900,000	1,200,000
Hypervisor	VMware ESXi 6.0 and 6.5				
vCPU	4 CPUs minimum / 8 CPUs recommended				
	2.6GHz recommended				
RAM	8GB minimum / 16GB recommended			16GB minimum / 32GB recommended	
System Disk Space	350GB				
Flow Storage	250GB minimum / 4TB maximum				
Packet Storage Space	250GB minimum / 4TB maximum				
Management Ports	2				

About Riverbed

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