

# SteelCentral Product Family Specifications

## Riverbed® SteelCentral™ NetProfiler Solutions

### Product Specifications

Model	SteelCentral NetProfiler Supports up to 30 million deduplicated flows per minute <sup>6</sup>			SteelCentral Flow Gateway
	SCNP-04280 <sup>5,6</sup>	SCNP-04280 <sup>5,6</sup> Expansion		SCFG-02280 Series
	SCNP-04280	SCNP-04280-EX	SCNP-04280-DP	
De-Duplicated Flow Capacity (flows per minute) <sup>1</sup>	100,000 - 1,500,000	100,000 - 1,500,000	N / A	100,000 - 6,000,000
Raw Flow Capacity (flows per minute) <sup>2</sup>	7.5M	7.5M	N / A	40M
Raw Flow Capacity with Advanced Security Module (FPM) <sup>3</sup>	7.5M	7.5M	N / A	20M
Raw Disk Capacity <sup>2</sup>	52 TB	52 TB	4 TB	4 TB
Usable Disk Capacity <sup>9</sup>	20 TB	20 TB	N / A	1 TB
Optional 10 GB LAN Support <sup>7</sup>	N / A	N / A	✓	✓
Optional Fibre Channel SAN Support <sup>7</sup>	✓	✓	N / A	N / A
RAID	RAID 1 / RAID 10	RAID 1 / RAID 10	RAID 1	RAID 1
Hard Disk Drives	8	8	2	2
Solid State Drives	6	6	N / A	N / A
RAM	256 GB	256 GB	96 GB	64 GB
Serial Port (DB-9)		✓		✓
Primary Cascade Management Port <sup>4</sup> (10/100/1000 RJ45)		✓		✓
Flow as Data Source <sup>10</sup>		N / A		✓

- 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.
- Each Flow Gateway model can report to up to two NetProfilers and forward flow to two third-party flow collectors.
- SCAN-04280-xxx and SCNP-04280-EXP equipped with RAID 10 (48 TB) and RAID10 (3.8 TB SSDs).
- Up to 19 SCNP-04280-EXP expansion modules may be added to each SCNP-04280 system. Each additional SCNP-04280-EXP enables up to 1.5M de-duplicated FPM. Maximum of 30M de-duplicated flows/min supported. SCNP-04280-DP is required with addition of sixth SCNP-04280-EXP after more than 10M FPM.
- Requires compatible SFPs.
- 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.
- Disk capacity available for storage of data.
- 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, SteelCentral Flow from Riverbed appliances, and AWS VPS Flows.

# SteelCentral NetProfiler Solutions

## Power and Physical Specifications

Model	SteelCentral NetProfiler			SteelCentral Flow Gateway
	SCNP-04280	SCNP-04280 Expansion		SCFG-02280 Series
	SCNP-04280	SCNP-04280-EX	SCNP-04280-DP	
Dual Power Supplies (redundant)	✓	✓	✓	✓
Power [Watts] (typical)	268		232	200
BTU	913		791	682
Operating Temperature <sup>1</sup>	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)			
Rack Size	2 U	2 U	1 U	1 U
System Dimensions (LxWxH) <sup>2</sup>	700 mm (L) x 440 mm (W) x 87 mm (H) 27.56" (L) x 17.32" (W) x 3.43" (H)		645 mm (L) x 436 mm (W) x 43.6 mm (H) 25.4" (L) x 17.2" (W) x 1.72" (H)	
Packaging Dimensions (LxWxH) <sup>3</sup>	914.4 mm (L) x 609.6 mm (W) x 304.8 mm (H) 36" (L) x 24" (W) x 12" (H)		645 mm (L) x 436 mm (W) x 43.6 mm (H) 25.4" (L) x 17.2" (W) x 1.72" (H)	
Weight (without packaging) <sup>4</sup>	61 lb	61 lb	44 lb	43 lb
Rail Information	Mounting rail kit included. Orderable spare part number: RMK-4-2 U		Mounting rail kit included. Orderable spare part number: RMK-4-1 U	
RoHS Compliant	✓	✓	✓	✓

1. Operating altitude up to 10,000 feet except in China 6,562 feet (2,000m).
2. Length is without bezel or cables.
3. Packaging dimensions do not include the pallet on which the unit might be shipped.
4. Weight does not include rails and front bezel.

# SteelCentral AppResponse Solutions

## Model Specifications

### SteelCentral NetShark / AppResponse xx80 Appliances

Model	2180	4180	8180		Storage Units (for Model 8180)	
			8180	8180 Plus	48 TB Storage Unit	120 TB Storage Unit
Product SKU	SCAN-02180	SCAN-04180	SCAN-08180		SCAN-SU-4	SCAN-SU-10
Storage	12 TB raw 10 TB usable	48 TB raw 40 TB usable (RAID 0)	None		48 TB	120 TB
Supported Storage Units	N / A		1	Up to 16 <sup>5</sup>	N / A	
Maximum Storage Capacity	12 TB raw 10 TB usable	48 TB raw 40 TB usable (RAID 0)	120 TB	1.92 PB	48 TB	120 TB
Storage Disk Capacity <sup>1,2</sup>	2 x 6 TB	8 x 6 TB	N / A		12 x 4 TB	12 x 10 TB
Storage Disk Redundancy	SW RAID level 0	HW RAID 0 (default), 5, 6	N / A		HW RAID 0 (default), 5, 6 <sup>6</sup>	
Data Encryption at Rest	N / A					Yes
System and Data Capacity <sup>3,4</sup>	4 TB usable (2 x 4 TB)	8 TB usable (4 x 4 TB)	16 TB usable (8 x 4 TB)		N / A	
System and Data Disk Redundancy	Yes (RAID 10)					N / A
Operating System	Customized Linux-based OS					N / A
RAM (GB)	32	64	128		N / A	
Available Network Interface Card Slots	1	2		N / A		
Available Capture Ports	One of the following NICs: - 4 x 1 GbE Copper - 4 x 1 GbE Fiber - 2 x 10 GbE Fiber	Up to two of the following NICs: - 4 x 1 GbE Copper - 4 x 1 GbE Fiber - 2 x 10 GbE Fiber - 4 x 10 GbE Fiber	Up to two of the following NICs: - 4 x 1 GbE Copper - 4 x 1 GbE Fiber - 2 x 10 GbE Fiber - 4 x 10 GbE Fiber Or: - 2 x 40 GbE Fiber	Up to two of the following NICs: - 4 x 1 GbE Copper - 4 x 1 GbE Fiber - 2 x 10 GbE Fiber - 4 x 10 GbE Fiber Or one of the following NICs: - 2 x 40 GbE Fiber - 2 x 100 GbE Fiber	N / A	
Management Port (10/100/1000 RJ45)	2					N / A

1. Raw Disk Capacity. 1 TB = 10<sup>12</sup> Bytes. It does not take into account disk formatting or RAID overhead.
2. Storage Disks store packets, and in addition can be configured to store performance metrics data.
3. Raw Disk Capacity. 1 TB = 10<sup>12</sup> Bytes. It does not take into account disk formatting or OS usage.
4. System and Data Disks store performance metrics data in addition to Operating System data.

5. All Storage Units on an individual model 8180 must be of the same capacity. With no Storage Units attached, available storage is limited to system and data capacity.
6. RAID 6 is not an option for the model 8180 when metrics priority storage mode is selected.
7. Supported inserts - 100 G Fibre ports are available with SR and LR QSFP28 inserts. 40 G Fibre ports are available with SR4, LR4, and LM4 QSFP inserts. 10 G Fibre ports are available with SR and LR SFP+ inserts (LC connectors). 1 G Fibre ports are available with SX and LX SFP inserts (LC connectors).

# SteelCentral AppResponse Solutions

## Power and Physical Specifications

### SteelCentral NetShark / AppResponse

Model	2180	4180	8180		Storage Units (for Model 8180)	
			8180	8180 Plus	48 TB Storage Unit	120 TB Storage Unit
Product SKU	SCAN-02180	SCAN-04180	SCAN-08180		SCAN-SU-4	SCAN-SU-10
Dual Power Supplies (redundant)	✓					
Power [Watts] (typical)	132	308	408		150	170
BTU	450	1,050	1,391		512	580
Line Power Requirement	100V to 240V 50Hz - 60Hz	100V to 127V and 200V to 240V 50Hz - 60Hz			100V to 240V 50Hz - 60Hz	
Operating Temperature <sup>1</sup>	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	1 U		2 U			
System Dimensions (LxWxH) <sup>2</sup>	645 mm (L) X 436 mm (W) X 43.6 mm (H) 25.4" (L) X 17.2" (W) X 1.72" (H)	700 mm (L) X 440 mm (W) X 87 mm (H) 27.56" (L) X 17.32" (W) X 3.43" (H)			647 mm (L) X 437 mm (W) X 89 mm (H) 25.5" (L) X 17.2" (W) X 3.5" (H)	
Packaging Dimensions (LxWxH) <sup>3</sup>	914.4 mm (L) X 609.6 mm (W) X 304.8 mm (H) 36" (L) X 24" (W) X 12" (H)				876 mm (L) X 678 mm (W) X 290 mm (H) 34.5" (L) X 26.7" (W) X 11.4" (H)	
Max Weight (without packaging) <sup>4</sup>	47 pounds	68 pounds	62 pounds		75 pounds	
Rail Information	Mounting Rail Kit Included. Orderable Spare Part Number: RMK-4-1U	Mounting Rail Kit Included. Orderable Spare Part Number: RMK-4-2U		Mounting Rail Kit Included. Orderable Spare Part Number: RMK-4-JBOD		
RoHS Compliant	✓					

1. Operating altitude up to 10,000 feet except in China 6,562 feet (2,000m).

2. Length is without bezel or cables.

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

4. Weight does not include rails and front 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.

## SteelCentral NetShark and SteelCentral AppResponse Solutions

### Power and Physical Specifications

#### SteelCentral NetShark Virtual Edition

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

## SteelCentral AppResponse Virtual and Cloud Solutions

### Model Specifications

SteelCentral AppResponse Virtual					SteelCentral AppResponse Cloud	
Model	VSCAN-00100	VSCAN-00500	VSCAN-02000	VSCAN-FLOW	VSCAN-AWS-SUB-010	VSCAN-AZR-SUB-010
Secondary Storage	Up to 100 GB	Up to 2 TB	Up to 8 TB	Up to 100 GB	16 GB - 8 TB	16 GB - 8 TB
Hypervisor	VMware ESXi 5.5, 6.0 and 6.5				AWS EC2	Azure
vCPU	4				8 (t2.2xlarge)	8 (standard_B8ms)
Memory	8 GB				32 GiB (t2.2xlarge)	32 GiB (standard_B8ms)
System Disk Space	100 GB				2 TB	
Capture Ports	Up to 8				1 (shared mgmt/capture port)	
Management Ports	2				1 (shared mgmt/capture port)	

## 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	2 GB				
System Disk Space	30 GB				
Capture Ports	Up to 2 (AUX, Primary)				

# SteelCentral NetShark Solutions

## Power and Physical Specifications

### 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	2 GB		
System Disk Space	30 GB		
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) <sup>1</sup>	15,000	30,000	60,000	90,000	120,000
Raw Flow Capacity <sup>8</sup>	150,000	300,000	600,000	900,000	1,200,000
System Disk Capacity <sup>2</sup>	8 TB				
Capture Disk Capacity <sup>3</sup>	4 TB				
RAID	RAID 1 / RAID 0				
Front-Swappable Disks <sup>3</sup>	4				
RAM	32 GB				
Serial Port (RJ-45 connector)	✓				
Available Traffic Monitoring/Packet Capture Ports	4-port 1 GbE Copper or 4-port 1 GbE Fiber SFP or 2-port 10 GbE Fiber SFP+ <sup>6</sup>				
Primary SteelCentral Management Port <sup>4</sup> (10/100/1000 RJ45)	✓				
Flow as Data Source <sup>7</sup>	✓				

- 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, SteelCentral Flow from Riverbed appliances, and AWS VPS Flows.
- 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-00470 <sup>9</sup>
Due Power Supplies (redundant, 450 Watts)	✓
Power (Watts) (typical)	135 W
BTU	458
Temperature <sup>9</sup>	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	1 U
System Dimensions (L x W x H) <sup>10</sup>	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 (L x W x H)	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
RoHS Compliant	✓

# SteelCentral NetProfiler Virtual Base/Expansion

## System Requirements

### SteelCentral NetProfiler Virtual Base / Expansion Supports up to 30 million deduplicated flows per minute<sup>11</sup>

Model	SCNP-BASE-VE / SCNP-EXP-VE				
Deduplicated Flow Capacity (flows per minute)	up to 10,000	20,000 - 100,000	110,000 - 500,000	510,000 - 1,000,000	1,010,000 - 1,500,000
Raw Flow Capacity (flows per minute)	up to 50,000	100,000 - 500,000	550,000 - 2,500,000	2,550,000 - 5,000,000	5,050,000 - 7,500,000
Hypervisor	VMware ESXi 6.5 and 6.7				
vCPU	4 CPUs minimum	4 CPUs minimum / 12 CPUs recommended	8 CPUs minimum / 16 CPUs recommended	12 CPUs minimum / 24 CPUs recommended	16 CPUs minimum / 32 CPUs recommended
	2.6 GHz recommended				
RAM	8 GB minimum / 32 GB recommended	16 GB minimum / 64 GB recommended	32 GB minimum / 96 GB recommended	64 GB minimum / 128 GB recommended	96 GB minimum / 256 GB recommended
System Disk Space	250 GB				
Flow Storage Space	250 GB minimum / 50 TB maximum per BASE or EXP				
Flow Storage IOPS (primary data storage)	150 minimum / 500+ recommended	500 minimum / 2,000+ recommended	1,500 minimum / 4,000+ recommended	2,000 minimum / 5,000+ recommended	
Flow Storage IOPS (cache)	300 minimum / 1,000+ recommended	1,000 minimum / 4,000+ recommended	3,000 minimum / 8,000+ recommended	4,000 minimum / 9,000+ recommended	

9. Operating altitude up to 10,000 feet.

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

11. Up to 19 SCNP-EXP-VE expansion modules may be added to each SCNP-BASE-VE system. Each additional SCNP-EXP-VE enables up to 1.5M de-duplicated FPM. A maximum of 30 million de-duplicated flows/min is supported. SCNP-DP-VE is required after more than 10 million FPM.

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.

# SteelCentral NetProfiler Virtual Dispatcher

## System Requirements

### SteelCentral NetProfiler Virtual Dispatcher

Model	SCNP-DP-VE
Deduplicated Flow Capacity (flows per minute)	0 - 30,000,000
Raw Flow Capacity (flows per minute)	0 - 150,000,000
Flow Capacity beyond which DP is required	10,000,000
Hypervisor	VMware ESXi 6.5 and 6.7
vCPU	16 CPUs minimum / 24 CPUs recommended 2.1 GHz minimum / 2.6 GHz recommended
RAM	32 GB minimum / 64 GB recommended
System Disk Space	250 GB

# SteelCentral Flow Gateway Virtual

## System Requirements

### SteelCentral Flow Gateway Virtual

Model	SCFG-VE					
Deduplicated Flow Capacity (flows per minute)	Up to 10,000	20,000 - 100,000	110,000 - 1,000,000	1,010,000 - 2,000,000	2,010,000 - 4,000,000	4,010,000 - 6,000,000
Raw Flow Capacity (flows per minute)	Up to 50,000	100,000 - 500,000	550,000 - 5,000,000	5,050,000 - 10,000,000	10,050,000 - 20,000,000	20,050,000 - 30,000,000
Hypervisor	VMware ESXi 6.5 and 6.7					
vCPU	2 CPUs recommended	2 CPUs minimum / 4 CPUs recommended	4 CPUs minimum / 6 CPUs recommended	6 CPUs minimum / 8 CPUs recommended	8 CPUs minimum / 12 CPUs recommended	12 CPUs minimum / 18 CPUs recommended
	2.6 GHz recommended					
RAM	2 GB minimum / 4 GB recommended	4 GB minimum / 8 GB recommended	8 GB minimum / 16 GB recommended	16 GB minimum / 24 GB recommended	24 GB minimum / 32 GB recommended	32 GB minimum / 48 GB recommended
System Disk Space	250 GB					
Flow Storage	250 GB minimum / 2 TB maximum					
Management Ports	2					



# SteelCentral Flow Gateway Virtual with Advanced Security Module

## System Requirements

### SteelCentral Flow Gateway Virtual with Advanced Security Module

Model	SCFG-VE					
Deduplicated Flow Capacity (flows per minute)	Up to 10,000	20,000 - 100,000	110,000 - 1,000,000	1,010,000 - 2,000,000	2,010,000 - 4,000,000	4,010,000 - 6,000,000
Raw Flow Capacity (flows per minute)	Up to 50,000	100,000 - 500,000	550,000 - 5,000,000	5,050,000 - 10,000,000	10,050,000 - 20,000,000	up to 20,000,000
Hypervisor	Vmware ESXi 6.5 and 6.7					
vCPU	4 CPUs recommended	4 CPUs minimum / 6 CPUs recommended	6 CPUs minimum / 8 CPUs recommended	8 CPUs minimum / 12 CPUs recommended	12 CPUs minimum / 16 CPUs recommended	16 CPUs minimum / 24 CPUs recommended
	2.6 GHz recommended					
RAM	2 GB minimum / 4 GB recommended	4 GB minimum / 8 GB recommended	8 GB minimum / 16 GB recommended	16 GB minimum / 24 GB recommended	24 GB minimum / 32 GB recommended	32 GB minimum / 48 GB recommended
System Disk Space	250 GB					
Flow Storage	500 GB					
Management Ports	2					

# SteelCentral NetExpress Virtual Edition

## System Requirements

### 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 6.5 and 6.7				
vCPU	4 CPUs minimum / 8 CPUs recommended				
	2.6 GHz recommended				
RAM	8 GB minimum / 16 GB recommended			16 GB minimum / 32 GB recommended	
System Disk Space	350 GB				
Flow Storage	250 GB minimum / 4 TB maximum				
Packet Storage Space	250 GB minimum / 4 TB maximum				
Management Ports	2				

### About Riverbed

Riverbed®, The Digital Performance Company™, is united in our purpose of *Advancing the Human Experience in the Digital World*. Behind every digital experience is a human one, and Riverbed enables organizations to measure digital experiences and maximize digital performance so they can deliver better and more powerful human experiences—for customers, employees, partners, patients, and citizens. Riverbed's Digital Performance Platform includes a combination of Digital Experience Management and Digital Networking solutions that ensure superior digital and user experiences, provides new levels of operational agility and accelerates business outcomes. Riverbed's 30,000+ customers include 100% of the *Forbes* Global 100. Learn more at [riverbed.com](http://riverbed.com).

