

# STEELFUSION APPLIANCES

## MODEL SPECIFICATIONS

Model	1160 Series (with BlockStream)					1260 Series (2 TB)				
Configurations	G	L	M	H	VH	G	L	M	H	VH
Profile	1U					2U				
Upgradeable To	1160-L/M/H	1160-M/H	1160-H	-	-	1260-L/M/H	1260-M/H	1260-H	-	-
Block Store <sup>(c)</sup>	760 GB <sup>(c)</sup>					1580 GB <sup>(c)</sup>				
Advanced Tiering Cache (SSD)	N/A					N/A				
Storage Fault Tolerance	RAID1					RAID10				
Hot Swappable Drives	4					6				8
Total RAM	48 GB				48 GB	72 GB				
Available for VSP <sup>(d,e)</sup>	32 GB					48 GB				
Optimized WAN Capacity	10 Mbps			20 Mbps	50/100 Mbps(g)	10 Mbps			20 Mbps	50/100 Mbps(g)
Optimized TCP & UDP flows	N/A	900	1,500	2,300	6,000	N/A	900	1,500	2,300	6,000
Data Store Capacity (SSD)	140 GB				280 GB	140 GB				280 GB
QoS Bandwidth <sup>(a)</sup>	100 Mbps					100 Mbps				
QoS Rules/Classes <sup>(b)</sup>	1,000					1,000				
Expansion Slots (PCI-e) <sup>(f)</sup>	2					4				
Included Bypass Ports (Copper)	4					4				
Max. # of Bypass Ports	8 <sup>(h)</sup>					8 <sup>(h)</sup>				

Model	1260 Series (4 TB)					1360 Series (10 TB)			1360P Series (10 TB)		
Configurations	G	L	M	H	VH	G	L	M	G	L	M
Profile	2U										
Upgradeable To	1260-L/M/H	1260-M/H	1260-H	-	-	1360-L/M	1360-M	-	1360P-L/M	1360P-M	-
Block Store <sup>(c)</sup>	3574 GB <sup>(c)</sup>					9400 GB <sup>(c)</sup>			9400 GB <sup>(c)</sup>		
Advanced Tiering Cache (SSD)	N/A					N/A			1 TB		
Storage Fault Tolerance	RAID10					RAID10			RAID10		
Hot Swappable Drives	10				12	24			24		
Total RAM	88 GB					128 GB			128 GB		
Available for VSP <sup>(d,e)</sup>	64 GB					64 GB	64 GB		64 GB	64 GB	
Optimized WAN Capacity	10 Mbps			20 Mbps	50/100 Mbps(g)	50 Mbps		100 Mbps	50 Mbps		100 Mbps
Optimized TCP & UDP flows	N/A	900	1,500	2,300	6,000	N/A	4,500	6,000	N/A	4,500	6,000
Data Store Capacity (SSD)	140 GB				280 GB	320 GB			320 GB		
QoS Bandwidth <sup>(a)</sup>	100 Mbps					100 Mbps			100 Mbps		
QoS Rules/Classes <sup>(b)</sup>	1,000					1,000			1,000		
Expansion Slots (PCI-e) <sup>(f)</sup>	4					4			4		
Included Bypass Ports (Copper)	4					4			4		
Max. # of Bypass Ports	8 <sup>(h)</sup>					8 <sup>(h)</sup>			8 <sup>(h)</sup>		

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) This is the maximum block store space. Depending on the disk setup, this may be shared with VSP. For more details, see the "Steelhead EX Installation and Configuration Guide"

(d) The RAM noted here is the Host Physical Memory available to vSphere. The memory available to guests will be lower than this number. For more details on vSphere memory management, please refer to the VMware vSphere Resource Management Guide at <http://pubs.vmware.com/vsphere-50/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-50-resource-management-guide.pdf>

(e) 1260 memory can be upgraded to 32GB (2TB model) and 64GB (4TB model)

(f) Optional Network Bypass cards: Quad copper GbE, Dual & Quad LX/SX Fiber GigE (1X4 port or 2X2 port NIC's)

(g) 100 Mbps WAN B/W license available on the 1160 VH/1260 VH only.

(h) The 1160, 1260 and 1360 support 1 add-on 4 port card that can be used either for 4 bypass ports or as 4 data ports

	SteelFusion Core											
Model	1000 Series			1500 Series		2000 Series				3000 Series		
Configurations	U	L	M	L	M	L	M	H	VH	L	M	H
<b>Profile</b>	Virtual					2U				2U		
<b>Upgradeable To</b>	VGC1000-L/M	VGC1000-M	-	VGC1500-M	-	GC2000-MH/VH	GC2000-H/VH	GC2000-VH	-	GC3000-MH	GC3000-H	-
<b>Number of LUNs</b>	10	20	40	60	60	20	40	80	160	200	250	300
<b>Number of Branches<sup>(a)</sup></b>	5	10	20	30	30	10	20	40	80	100	125	150
<b>Data set size<sup>(b)</sup></b>	2 TB	5 TB	10 TB	20	35	5 TB	10 TB	20 TB	35 TB	50 TB	75 TB	100 TB
<b>Front Swappable Drives</b>	N/A					2				2		
<b>RAM</b>						24 GB				128 GB		
<b>Expansion Slots (PCI-e)</b>						4				4		
<b>Included Ports (Copper)</b>						6				6		
<b>Max. # of Ports</b>						10				10		

(a) Assumes 2 LUNs per branch

(b) Recommended size depending on data type

	Branch / Edge				Data Center	
Model	1160 Series	1260 Series	1360 Series	1360P Series	2000 Series	3000 Series
<b>Dual Power Supplies</b>	✓					
<b>Power [Watts] (Typical)</b>	175	355	505	515	330	400
<b>BTU</b>	605	1215	1726	1753	1130	1368
<b>Temperature<sup>(b)</sup></b>	10 - 40 deg C / 50 - 104 deg F (Operating) -40 - 65 deg C / -40 - 149 deg F (Storage)					
<b>Relative Humidity<sup>(a)</sup></b>	20% - 80% non-condensing (Operating) 5% - 95% non-condensing (Storage)					
<b>Operating Acoustic noise (Typical)</b>	62 dBA	65 dBA	65 dBA	65 dBA	65dBA	65 dBA
<b>System Dimensions (LxWxH)<sup>(c)</sup></b>	25.4 x 17.2 x 1.71 in 645.4 x 436 x 43.5 mm	25.4 x 17.2 x 3.43 in 645.4 x 436 x 87.1 mm				
<b>Packaging Dimensions</b>	36.25 x 23.38 x 12.5 in 920.8 x 593.7 x 317.5 mm					
<b>Max Weight (without packaging)</b>	36 Lbs 16.36 Kg	58 Lbs 23.36 Kg	60 Lbs 27.2 Kg	60 Lbs 27.2 Kg	58 Lbs 23.36 Kg	58 Lbs 23.36 Kg
<b>Rail Information</b>	Mounting rail kit included. Orderable spare part RMK-002A					

(a) In China - for use in non-tropical locations

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

(c) Length is without bezel

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