

SOLIDSERVER[™] APPLIANCE SUITE

SOLIDserver[™] suite of appliances is designed to deliver high-performance IPAM-DNS-DHCP-NTP-TFTP services and network automation. SOLIDserver[™] platforms provide vital benefits for reliability, resiliency and security of mission-critical network services and management.

The appliance suite is based on a wide range of hardware and virtual models to match requirements, from small branch offices to the largest enterprises. SOLIDserver[™] can be deployed as a standalone unit, HA pairs or distributed architecture managed centrally from a powerful and user-friendly web interface.

To fulfill each customer's specific needs and ensure flexible scalability, EfficientIP's suite of appliances includes 9 models with different levels of performance.

SOLIDserver[™] Appliances:

- **SOLIDserver[™] 50**
Designed for deployment in local offices (DNS-DHCP only).
- **SOLIDserver[™] 260**
Designed for deployment in small enterprises or branch offices.
- **SOLIDserver[™] 550**
Designed for deployment in small to medium-sized enterprises.
- **SOLIDserver[™] 1100**
Designed for deployment in medium-sized enterprises.
- **SOLIDserver[™] 2200**
Designed for deployment in medium to large-sized enterprises.
- **SOLIDserver[™] 3300**
Designed for deployment in large enterprises, data centers and service provider environments.
- **SOLIDserver[™] 4000 - 5000 - 5500**
Designed for high performance and DNS security, large enterprises and ISPs.

SOLIDserver™ Hardware Appliances (DDI & NetChange)

		SDS-50 (*)	SDS-260	SDS-550
Performance**	DNS (QPS)	500	7000	25000
	DHCP (LPS)	20	125	500
	Form Factor	6"x6"	1U	1U
	Height	30 mm (1.18 inch)	42.8 mm (1.68 inch)	42.8 mm (1.68 inch)
	Width with rack latches	NA	482.38 mm (19 inch)	482.38 mm (18.99 inch)
	Width without rack latches	168 mm (6.61 inch)	434.15 mm (17.09 inch)	434.15 mm (17.09 inch)
	Depth without Beze	164 mm (6.45 inch)	497 mm (19.5 inch)	610 mm (24 inch)
	Weight	0.45 kg (0.99 lb)	8.78 kg (19.35 lbs)	13.8 kg (30.42 lbs)
Chassis	Rack Rails Kit	NA	Yes	Yes
	LCD Screen	NA	Yes	Yes
	Disk	Single	Single	Raid 1 - Hot-Swap
	Backup Flash	No	Yes	Yes
	NIC	3 * 1 Gigabit Ethernet Port(s) (Copper)	4 * 1 Gigabit Ethernet Port(s) (Copper)	4 * 1 Gigabit Ethernet Port(s) (Copper)
	Serial	DB-9 (96008N1)	DB-9 (96008N1)	DB-9 (96008N1)
	Display Port (VGA)	No	Yes	Yes
	Light Out Of Band Management	No	Yes	Yes
	Cooling (Heat Dissipation)	Passive	1039 BTU/hr maximum (250 W PSU)	1357.1 BTU/hr
	Power Supply	DC (1.8A)	AC (350W)	AC (350W)
Power	Input Voltage	12V	100-240V	100-240V
	Input Frequency	NA	50-60HZ	50-60HZ
	Power Supply AC-DC Adapter	in: 100-240V~ 50-60HZ 0.8A out: 12V - 2000mA	NA	NA
	Homologations	Safety:CE Environmental: RoHS	Safety: CE, CCC, C-Tick, EEA, EAC, FCC, GOST, ICES-003, RIAM, KCC, NEMKO, TUV-GS, UL/cUL, VCCI Environmental: RoHS, WEEE	
Misc	Operating Temperature	10°C to 35°C (50°F to 95°F)	10°C to 35°C (50°F to 95°F)	10°C to 35°C (50°F to 95°F)
	Storage Temperature	-40°C to 65°C (-40°F to 149°F)	-40°C to 65°C (-40°F to 149°F)	-40°C to 65°C (-40°F to 149°F)

SOLIDserver™ Hardware Appliances (DDI & NetChange)

		SDS-1100	SDS-2200	SDS-3300	
Performance**	DNS (QPS)	50000	125000	250000	
	DHCP (LPS)	1000	2500	6000	
	Form Factor	1U	1U	2U	
	Height	42.8 mm (1.68 inch)	42.8 mm (1.68 inch)	8.73 cm (3.44 inch)	
	Width with rack latches	482.38 mm (18.99 inch)	482.38 mm (18.99 inch)	48.2 cm (18.98 inch)	
	Width without rack latches	434.15 mm (17.09 inch)	434.15 mm (17.09 inch)	48.2 cm (18.98 inch)	
	Depth without Bezel	610 mm (24 inch)	610 mm (24 inch)	75.58 cm (29.75 inch)	
	Weight	13.8 kg (30.42 lbs)	13.8 kg (30.42 lbs)	31.5 kg (69.45 lbs)	
	Chassis	Rack Rails Kit	Yes	Yes	Yes
LCD Screen		Yes	Yes	Yes	
Disk		Raid 1 - Hot-Swap	Raid 1 - Hot-Swap	Raid 1 - Hot-Swap	
Backup Flash		Yes	Yes	Yes	
NIC		4 * 1 Gigabit Ethernet Port(s) (Copper)	4 * 1 Gigabit Ethernet Port(s) (Copper)	4 * 1 Gigabit Ethernet Port(s) (Copper)	
Serial		DB-9 (96008N1)	DB-9 (96008N1)	DB-9 (96008N1)	
Display Port (VGA)		Yes	Yes	Yes	
Light Out Of Band Management		Yes	Yes	Yes	
Cooling (Heat Dissipation)		1357.1 BTU/hr	1357.1 BTU/hr	2891 BTU/hr maximum	
Power		Power Supply	AC (350W)	AC (350W)	AC (750W)
	Input Voltage	100-240V	100-240V	100-240V	-48 V DC
	Input Frequency	50-60HZ	50-60HZ	50-60HZ	NA
	Power Supply AC-DC Adapter	NA	NA	NA	
	Misc	Homologations	Safety: CE, CCC, C-Tick, EEA, EAC, FCC, GOST, ICES-003, RIAM, KCC, NEMKO, TUV-GS, UL/cUL, VCCI Environmental: RoHS, WEEE		
Operating Temperature		10°C to 35°C (50°F to 95°F)	10°C to 35°C (50°F to 95°F)	10°C to 35°C (50°F to 95°F)	
Storage Temperature		-40°C to 65°C (-40°F to 149°F)	-40°C to 65°C (-40°F to 149°F)	-40°C to 65°C (-40°F to 149°F)	

SOLIDserver™ Blast Appliances

		SDS-4000		SDS-5000		SDS-5500	
Performance**	DNS (QPS)	3000000		10000000		17000000	
	DHCP (LPS)	NA		NA		NA	
	Form Factor	2U		2U		2U	
	Height	8.73 cm (3.44 inch)		8.73 cm (3.44 inch)		8.73 cm (3.44 inch)	
	Width with rack latches	48.2 cm (18.98 inch)		48.2 cm (18.98 inch)		48.2 cm (18.98 inch)	
	Width without rack latches	48.2 cm (18.98 inch)		48.2 cm (18.98 inch)		48.2 cm (18.98 inch)	
	Depth without Bezel	75.58 cm (29.75 inch)		75.58 cm (29.75 inch)		75.58 cm (29.75 inch)	
	Weight	31.5 kg (69.45 lbs)		31.5 kg (69.45 lbs)		31.5 kg (69.45 lbs)	
	Rack Rails Kit	Yes		Yes		Yes	
	LCD Screen	Yes		Yes		Yes	
Chassis	Disk	Raid 1 - Hot-Swap		Raid 1 - Hot-Swap		Raid 1 - Hot-Swap	
	Backup Flash	Yes		Yes		Yes	
	NIC	4 * 1 Gigabit Ethernet Port(s) (Copper)	2 * 10 Gigabit Ethernet Port(s) (SFP+)	4 * 1 Gigabit Ethernet Port(s) (Copper)	2 * 10 Gigabit Ethernet Port(s) (SFP+)	4 * 1 Gigabit Ethernet Port(s) (Copper)	2 * 10 Gigabit Ethernet Port(s) (SFP+)
	Serial	DB-9 (96008N1)		DB-9 (96008N1)		DB-9 (96008N1)	
	Display Port (VGA)	Yes		Yes		Yes	
	Light Out Of Band Management	Yes		Yes		Yes	
	Cooling (Heat Dissipation)	2891 BTU/hr maximum		2891 BTU/hr maximum		2891 BTU/hr maximum	
	Power Supply	AC (750W)	DC (32A)	AC (750W)	DC (32A)	AC (750W)	DC (32A)
	Input Voltage	100-240V	-48 V DC	100-240V	-48 V DC	100-240V	-48 V DC
	Input Frequency	50-60HZ	NA	50-60HZ	NA	50-60HZ	NA
Power	Power Supply AC-DC Adapter	NA		NA		NA	
	Homologations	Safety: CE, CCC, C-Tick, EEA, EAC, FCC, GOST, ICES-003, RIAM, KCC, NEMKO, TUV-GS, UL/cUL, VCCI Environmental: RoHS, WEEE		Safety: CE, CCC, C-Tick, EEA, EAC, FCC, GOST, ICES-003, RIAM, KCC, NEMKO, TUV-GS, UL/cUL, VCCI Environmental: RoHS, WEEE		Safety: CE, CCC, C-Tick, EEA, EAC, FCC, GOST, ICES-003, RIAM, KCC, NEMKO, TUV-GS, UL/cUL, VCCI Environmental: RoHS, WEEE	
	Operating Temperature	10°C to 35°C (50°F to 95°F)		10°C to 35°C (50°F to 95°F)		10°C to 35°C (50°F to 95°F)	
	Storage Temperature	-40°C to 65°C (-40°F to 149°F)		-40°C to 65°C (-40°F to 149°F)		-40°C to 65°C (-40°F to 149°F)	
Misc							

SOLIDserver™ Virtual Appliances Requirements

		SDS-50 (*)	SDS-260	SDS-550	SDS-1100	SDS-2200	SDS-3300	SDS-4000-BLAST
Performance**	DNS (QPS)	500	7000	25000	50000	125000	250000	3000000
	DHCP (LPS)	20	125	500	1000	2500	6000	NA
	VCPU	1	2	2	4	4	8	12
	RAM	2 GB	4 GB	8 GB	8 GB	16 GB	32 GB	32 GB
	IOPS	≥ 80 IOPS	≥ 80 IOPS	≥ 80 IOPS	≥ 160 IOPS	≥ 160 IOPS	≥ 160 IOPS	≥ 160 IOPS
	Virtual Disk	≥ 32GB	≥ 64GB	≥ 64GB	≥ 128GB	≥ 128 GB	≥ 128 GB	≥ 128 GB
VM Properties	Network Performance	Low (1K PPS)	Low (20K PPS)	Medium (40K PPS)	High (80K PPS)	High (160K PPS)	High (300K PPS)	High (3M PPS) Needs Intel X520 Chipset in PCI Pass-through mode

* The SDS-50 appliance requires a centralized management appliance for network services configurations.

** Listed performance numbers were reached in test environment.
Performance numbers in production may be different.

Please note that designs that are not compliant with these recommendations require the validation of the EfficientIP Pre-Sales department.

QPS: Queries per Second
LPS: Leases per Second



REV: B-1712

As one of the world's fastest growing DDI vendors, EfficientIP helps organizations drive business efficiency through agile, secure and reliable network infrastructures. Our unified management framework for DNS-DHCP-IPAM (DDI) and network configurations ensures end-to-end visibility, consistency control and advanced automation. Additionally, our unique 360° DNS security solution protects data confidentiality and application access from anywhere at any time. Companies rely on us to help control the risks and reduce the complexity of challenges they face with modern key IT initiatives such as cloud applications, virtualization, and mobility. Institutions across a variety of industries and government sectors worldwide rely on our offerings to assure business continuity, reduce operating costs and increase the management efficiency of their network and security teams.

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