

NetWall USG/BSG and Diode Technical Specification

PRODUCT DESCRIPTION

NetWall 100Mbps and 1Gbps Security Gateways (USG and BSG).

PRODUCT PART NUMBERS

Unidirectional Gateway	
NetWall Uni (100 mbit/sec)	Part # MD-NW-100Mbps-UNI
NetWall 1 Gbps Upgrade	Part # MD-NW-1Gbps-UG
Bilateral Gateway	
NetWall BiL(100 mbit/sec)	Part # MD-NW-100Mbps-Bil
NetWall 1 Gbps Upgrade	Part # MD-NW-1Gbps- UG

Platform Specification Server	Blue	Red
CPU	Xeon E-2234 3.6GHz, or Intel I7 12700	Xeon E-2234 3.6GHz, or Intel I7 12700
RAM	32GB ECC, expandable to 64GB	32GB ECC, expandable to 64GB
Disk Drive	Quantity 2- 480GB SSD Drivers, Mirrored, Hardware RAID controller 9560	Quantity 2- 480GB SSD Drivers, Mirrored, Hardware RAID controller 9560
Network Interface	Two Network ports	Two Network ports
Redundant Power Supply	350W	350W
Voltage	100-240VAC, auto ranging	100-240VAC, auto ranging
Power Consumption	Typical ~ 160W	Typical ~ 160W
USB Interface	1 USB socket on each platform to connect approved USB security dongle	1 USB socket on each platform to connect approved USB security dongle
PCIe Slots	1 x PCIe Gen 3.0 slots	1 x PCIe Gen 3.0 slots
Power cord	Order to comply with destination country requirement	Order to comply with destination country requirement

RELIABILITY/Environmental

MTBF	> 50,000 hours	> 50,000 hours
Temperature Range (Operating)	-10°C to 40°C	-10°C to 40°C
Acoustics	64 dBA (Max)	64 dBA (Max)

FORM FACTOR

1U Rack mountable	Single 1U 19" rack mountable	Single 1U 19" rack mountable
Weight	2 units @ 27lb / 12.2kg each	2 units @ 27lb / 12.2kg each
Mounting	Rack L-bracket mounting kit supplied	Rack L-bracket mounting kit supplied

Latency

Latency	Less than 1ms latency blue to red
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PRODUCT DESCRIPTION

NetWall 10Gbps Security Gateways (USG).

PRODUCT PART NUMBERS		
Unidirectional Gateway or Bilateral Gateway		
NetWall Uni (100 mbit/sec)	Part # MD-NW-100Mbps-UNI	
NetWall 10G Upgrade license for NetWall UNI	Part # MD-NW-10G- UG (Coupled with upgraded HW platform)	
Platform Specification	Blue	Red
Server		
CPU	Intel I9 or equivalent	Intel I9 or equivalent
RAM	16 GB, expandable to 64GB	16 GB, expandable to 64GB
Disk Drive	Quantity 2- 1TB 7.2K RPM SSD Drivers, Mirrored, Hardware RAID controller Optional, hot pluggable	Quantity 2- 1TB 7.2K RPM SSD Drivers, Mirrored, Hardware RAID controller Optional, hot pluggable
Network Interface	Two Network ports – 10Gbps fiber cards	Two Network ports – 10Gbps fiber cards
Redundant Power Supply	250W	250W
Voltage	100-240VAC, auto ranging	100-240VAC, auto ranging
Power Consumption	Typical ~ 160W	Typical ~ 160W
USB Interface	1 USB socket on each platform to connect approved USB security dongle	1 USB socket on each platform to connect approved USB security dongle
PCIe Slots	2 x PCIe Gen 3.0 slots	2 x PCIe Gen 3.0 slots
Power cord	Order to comply with destination country requirement	Order to comply with destination country requirement
RELIABILITY/Environmental		
MTBF	> 50,000 hours	> 50,000 hours
Temperature Range (Operating)	-10°C to 40°C	-10°C to 40°C
Acoustics	< 40 dBA	< 40 dBA
FORM FACTOR		
1U Rack mountable	Single 1U 19" rack mountable	Single 1U 19" rack mountable
Weight	2 units @ 27lb / 12.2kg each	2 units @ 27lb / 12.2kg each
Mounting	Rack mounting kit supplied	Rack mounting kit supplied
Latency		
Latency	Less than 1ms latency blue to red	

PRODUCT DESCRIPTION

NetWall 100Mbps and 1Gbps Optical Diode.

PRODUCT PART NUMBERS

Optical Diodes

NetWall Uni (100 mbit/sec)	Part # MD-NW-100Mbps-UNI
NetWall 1 Gbps Upgrade	Part # MD-NW-1Gbps-UG

Platform Specification Server	Blue	Red
CPU	Xeon 3.6GHz, or Intel I7 12700	Xeon E-2234 3.6GHz, or Intel I7 12700
RAM	32GB ECC, expandable to 64GB	32GB ECC, expandable to 64GB
Disk Drive	Quantity 2- 480GB SSD Drivers, Mirrored, Hardware RAID controller 9560	Quantity 2- 480GB SSD Drives, Mirrored, Hardware RAID controller 9560 Optional
Network Interface	Two Network ports	Two Network ports
Redundant Power Supply	350W	350W
Voltage	100-240VAC, auto-ranging	100-240VAC, auto-ranging
Power Consumption	Typical ~ 160W	Typical ~ 160W
USB Interface	1 USB socket on each platform to connect approved USB security dongle	1 USB socket on each platform to connect approved USB security dongle
PCIe Slots	1 x PCIe Gen 3.0 slots	1 x PCIe Gen 3.0 slots
Power cord	Order to comply with destination country requirement	Order to comply with destination country requirement

RELIABILITY/Environmental

MTBF	> 50,000 hours	> 50,000 hours
Temperature Range (Operating)	-10°C to 40°C	-10°C to 40°C
Acoustics	64 dBA (Max)	64 dBA (Max)

FORM FACTOR

1U Rack mountable	Single 1U 19" rack mountable	Single 1U 19" rack mountable
Weight	2 units @ 27lb / 12.2kg each	2 units @ 27lb / 12.2kg each
Mounting	Rack L-bracket mounting kit supplied	Rack L-bracket mounting kit supplied

Latency

Latency	Less than 1ms latency blue to red
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PRODUCT DESCRIPTION

NetWall 10Gbps Optical Diode.

PRODUCT PART NUMBERS		
Optical Diode SKUs		
NetWall Uni (100 mbit/sec)	Part # MD-NW-100Mbps-UNI	
NetWall 10Gbps Upgrade license	Part # MD-NW-10Gbps-UG	
Platform Specification	Blue	Red
Server		
CPU	Xeon (silver or gold) 2.8 GHz, or Intel I7 12700	Xeon (silver or gold) 2.8 GHz, or Intel I7 12700
RAM	ECC, 32GB	ECC, 32GB
Disk Drive	Quantity 2- 480GB SSD Drivers, Mirrored, Hardware RAID controller 9560	Quantity 2- 480GB SSD Drives, Mirrored, Hardware RAID controller 9560
Network Interface	Qty 1 – Dual Fiber Nic – 10 Gbps Fiber Card Qty 1 - 25Gbps Dual Nic	Qty 1 – Dual Fiber Nic– 10 Gbps Fiber Cards Qty 1 - 25Gbps Dual Nic
Redundant Power Supply	800W	800W
Voltage	100-240VAC, auto-ranging	100-240VAC, auto-ranging
Power Consumption	Typical ~ 220W	Typical ~ 220W
USB Interface	1 USB socket on each platform to connect approved USB security dongle	1 USB socket on each platform to connect approved USB security dongle
PCIe Slots	3 x PCIe Gen 3.0 slots	3 x PCIe Gen 3.0 slots
Power cord	Order to comply with destination country requirement	Order to comply with destination country requirement
Environmental		
Temperature Range (Operating)	-10°C to 40°C	-10°C to 40°C
Humidity	8% RH with -12°C minimum dew point to 80% RH with 21°C (69.8°F) maximum dew point	8% RH with -12°C minimum dew point to 80% RH with 21°C (69.8°F) maximum dew point
FORM FACTOR		
1U Rack mountable	Single 1U 19" rack mountable	Single 1U 19" rack mountable
Weight	16.58 kg (36.55 pound)	16.58 kg (36.55 pound)
Mounting	Rack L-bracket mounting kit supplied	Rack L-bracket mounting kit supplied
Latency		
Latency	Less than 1ms latency blue to red	

PRODUCT DESCRIPTION

NetWall with MD Core Option (MD Core on Blue)

PRODUCT PART NUMBERS

Unidirectional Gateway	
NetWall Uni (1 Gb/sec)	Part # MD-NW-1Gbps-TP
NetWall 10G Upgrade	Part # MD-NW-10Gbps -Upgrade

Platform Specification Server	Blue	Red
CPU	Xeon® Scalable processor I7 12700	Xeon E-2234 3.6GHz, or Intel I7 12700
Xeon® Scalable processors, up to 24 cores per processor	32GB ECC, expandable to 64GB	32GB ECC, expandable to 64GB
32 GB, expandable to 64GB	Quantity 2- 1TB SSD Drivers, Mirrored, Hardware RAID controller 9560	Quantity 2- 1TB SSD Drivers, Mirrored, Hardware RAID controller 9560
Quantity 2- SSD Drivers, Mirrored, Hardware RAID controller, hot pluggable	350W	350W
Network Interface	Two Network ports – 10Gbps fiber cards (for 10Gbps NetWall)	Two Network ports – 10Gbps fiber cards (for 10Gbps NetWall)
Redundant power supply	350W	350W
Voltage	100-240VAC, auto ranging	100-240VAC, auto ranging
Power Consumption	Typical ~ 160W	Typical ~ 160W
USB Interface	1 USB socket on each platform to connect approved USB security dongle	1 USB socket on each platform to connect approved USB security dongle
PCIe Slots	1 x PCIe Gen 3.0 slots	1 x PCIe Gen 3.0 slots
Power cord	Order to comply with destination country requirement	Order to comply with destination country requirement
RELIABILITY/Environmental		
MTBF	> 50,000 hours	> 50,000 hours
Temperature Range (Operating)	-10°C to 40°C	-10°C to 40°C
Acoustics	64 dBA (Max)	64 dBA (Max)
FORM FACTOR		
1U Rack mountable	Single 1U 19" rack mountable	Single 1U 19" rack mountable
Weight	2 units @ 27lb / 12.2kg each	2 units @ 27lb / 12.2kg each
Mounting	Rack L-bracket mounting kit supplied	Rack L-bracket mounting kit supplied
Latency		
Latency	Less than 1ms latency blue to red	