Hardware & Environmental Specifications

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Hardware & Environmental Specifications Technical Brief

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General

This document summarizes all hardware and environmental specifications for SWG 3000, SWG 5000, and SWG 7000 series.

Disclaimer: The configuration described in this document reflects the standard setup that is provided with M86 Secure Web Gateway appliances. This does not necessarily include all possible configuration options from the original hardware vendor (such as redundant power supply, hard disk memory, or management module). If you require a specific setup or configuration, please contact your local M86 representative.

Chapter 1: SWG 7010 Series

Figure 1: SWG 7010

Hardware Specifications

Hardware Specifications Policy Server (IBM HS22-7870)	Values
CPU	2 X Intel Xeon Quad-Core E5506 2.13 GHz 4 MB cache
Memory	8GB
Network Adapters	4 x 1Gb Ethernet
Hard Disks	2 x 146Gb SAS (In Raid 1)

Hardware Specifications Scanning Server (IBM HS22)	Values
CPU	2 X Intel Xeon Quad-Core E5506 2.13 GHz 4 MB cache
Memory	8Gb
Network Adapters	2 x 1Gb Ethernet
Hard Disks	1 x 73GB SAS
Caching kit	1 x 73GB SAS

Hardware Specifications Chassis (IBM 8677-4SX)	Values
Management	IBM Advanced Management Module
Memory	N/A
Network Adapters	N/A
Hard Disks	N/A
Number of Blowers	2
Number of Power Supplies	4 x 2320 W
Connectors and Media Devices	Rear: USB 2.0, VGA, RJ45 for management Front: USB 2.0, DVD

Environmental Specifications

Parameter	Values
Dimensions: (WxDxH)	444 x 711.2 x 304.2 mm 17.5 x 28 x 12 inches (7U)
Weight	Fully configured with modules and blades: approx 102kg (225 lb) Fully configured without blades: approx 38.6 kg (85 lbs) Each blade weighs 5.4Kg (12 lbs)
Environment	Operating Temperature: 10 to 35C (50 to 95F) at 0-914 m (0 – 3000 ft) -10 to 32C (50 to 90F) at 914 – 2,133 m (3,000 – 7000 ft) OFF: -40 – 60C (-40 – 140F) Relative humidity: 8% to 80%
Power Consumption	4 x 2320 watts
Heat Dissipation	Minimum configuration: 1,365 BTU/hour Maximum configuration: 23,672 BTU/hour
Certificates and standards	FCC — Verified to comply with Part 15 of the FCC Rules, Class A Canada ICES-003, issue 4, Class A UL/IEC 60950-13 CAN C22.2 No. 60950-1-03 NOM-019

For more and detailed information on the **SWG 7010 (IBM BladeCenter chassis)** and **SWG 7100 (IBM Blade Server HS22)** please refer to:
IBM Support Portal
BladeCenterHS22

Chapter 2:   SWG 5000 Series

Figure 2: 5000 SWG (NG-6000 Appliance)

Hardware Specifications

Hardware Specifications (IBM X3550 M3 E5645 6C CPU)	Values
CPU	2xIntel E5646 6c 2.13GHz
Memory	16 GB
Network Adapters	4x1GB Ethernet
Raid controller	IBM Serveraid M5014
Hard Disks	2x146GB 2.5" HS SAS
Number of Power Supplies	2
Connectors	Front: 2 USB, 1 Video. Rear: Management, 4 Ethernet, 2 USB
Caching kit	2 x 73GB 2.5" 15K HS HDD

Environmental Specifications

Parameter	Values
Dimensions: (WxDxH)	440 x 711 x 43 mm 17.3 x 28 x 11.9 inches (1U)
Weight	15.4 kg (34 lb) Fully configured
Environment	Server on: Air temperature: 10 to 35 C (50 to 95 F) Altitude: 0 to 2133 m (0 to 7000 ft) Humidity: 8% to 80% Decrease system Temperature by 0.75 C (33.3 F) for every 300 m (1000 ft) increase in altitude Server off: Air temperature: -40 to 60 C (-104 to 140 F) maximum altitude: 2133m (7000 ft) Humidity: 8% to 80%
Power Consumption	Maximum configuration: 675 Watts
Heat Dissipation	Maximum configuration: 2302 BTU/hour
Certificates and standards	FCC — Verified to comply with Part 15 of the FCC Rules, Class A Canada ICES-003, issue 4, Class A UL/IEC 60950-1 3 CSA C22.2 No. 60950-1-03 NOM-019 3
MTBF	57,454 Hours

For more detailed information on the **SWG 5000 (IBM X3550 M2 7946)** please refer to:

[IBM Systems](#)

Chapter 3:   SWG 3000 Series

Figure 3: 3000 SWG (NG-5000 Appliance)

Hardware Specifications

Hardware Specifications (IBM X3250 M3-4252)	Value
CPU	Xeon X3430 2.4GHz/1333MHz-8MB 4C
Memory	8Gb
Network Adapters	2 x 1Gb Ethernet
Hard Disks	1 X 250Gb SATA2 Simple-Swap
Number of fans	5
Number of Power Supplies	1 X 351W
Connectors	Rear: 4 x USB, VGA, Serial Console RS-232, System management Ethernet Front: 2 x USB
Caching kit	1 X 250Gb SATA2 Simple-Swap HDD

Environmental Specifications

Parameter	Value
Dimensions: (WxDxH)	430 x 560.1 x 43 mm (WxDxH) 17.3 x 22 x 1.69 inches (1U)
Weight (fully configured)	11.4 Kg (25.1 lbs)
Environment	Operating Temperature:10 to 35 C (50 to 95 F) Operating Humidity: 8%-80% Storage Temperature:10 to 43 C 50 to 109.4 F) Storage Humidity: 8%-80%
Power Consumption	165 watts
Heat Dissipation	563 Btu/hour
Certificates and standards	CE / FCC / UL

For more detailed information on the **SWG 3000 (IBM X3250 M3-4252)** please refer to:

IBM Systems