



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<br>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<br>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<br>Front: USB 2.0, DVD |

## ***Environmental Specifications***

| Parameter                  | Values   |
|----------------------------|--|
| Dimensions: (WxDxH)        | 444 x 711.2 x 304.2 mm<br>17.5 x 28 x 12 inches (7U)   |
| Weight                     | Fully configured with modules and blades:<br>approx 102kg (225 lb)<br>Fully configured without blades: approx 38.6 kg (85 lbs)<br>Each blade weighs 5.4Kg (12 lbs)                                   |
| Environment                | Operating Temperature:<br>10 to 35C (50 to 95F) at 0-914 m (0 – 3000 ft)<br>-10 to 32C (50 to 90F) at 914 – 2,133 m (3,000 – 7000 ft)<br>OFF: -40 – 60C (-40 – 140F)<br>Relative humidity: 8% to 80% |
| Power Consumption          | 4 x 2320 watts   |
| Heat Dissipation           | Minimum configuration: 1,365 BTU/hour<br>Maximum configuration: 23,672 BTU/hour  |
| Certificates and standards | FCC — Verified to comply with Part 15 of the FCC Rules, Class A<br>Canada ICES-003, issue 4, Class A<br>UL/IEC 60950-13<br>CAN C22.2 No. 60950-1-03<br>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<br>(IBM X3550 M3 7944) | Values  |
|--|---|
| CPU  | 2 X Intel Xeon Quad-Core E5506<br>2.13 GHz 4 MB cache   |
| Memory   | 8Gb   |
| Network Adapters                               | 4 x 1Gb Ethernet  |
| Raid controller                                | Server raid M5014   |
| Hard Disks                                     | 2 X 146Gb 2.5" 15K HS (In Raid1)  |
| Number of fans                                 | 6 Dual-Motor  |
| Number of Power Supplies                       | 2 x 675W redundant Hot-Swap   |
| Connectors                                     | Rear: 2 x USB, VGA, Serial Console RS-232,<br>System management Ethernet<br>Front: 2 x USB, VGA |
| Caching kit                                    | 2 x 73GB 2.5" 15K HS HDD  |

## Environmental Specifications

| Parameter                  | Values  |
|----------------------------|---|
| Dimensions: (WxDxH)        | 440 x 711 x 43 mm<br>17.3 x 28 x 11.9 inches (1U)   |
| Weight                     | 15.4 kg (34 lb) Fully configured  |
| Environment                | Server on:<br>Air temperature: 10 to 35 C (50 to 95 F)<br>Altitude: 0 to 2133 m (0 to 7000 ft)<br>Humidity: 8% to 80%<br>Decrease system Temperature by 0.75 C (33.3 F) for every 300 m (1000 ft) increase in altitude<br><br>Server off:<br>Air temperature: -40 to 60 C (-104 to 140 F)<br>maximum altitude: 2133m (7000 ft)<br>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<br>Canada ICES-003, issue 4, Class A<br>UL/IEC 60950-1 3<br>CSA C22.2 No. 60950-1-03<br>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<br>Front: 2 x USB |
| Caching kit                                 | 1 X 250Gb SATA2 Simple-Swap HDD   |

## ***Environmental Specifications***

| <b>Parameter</b>           | <b>Value</b>   |
|----------------------------|--|
| Dimensions: (WxDxH)        | 430 x 560.1 x 43 mm (WxDxH)<br>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)<br>Operating Humidity: 8%-80%<br>Storage Temperature:10 to 43 C 50 to 109.4 F)<br>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](#)