Technical Specifications

Model	GX4004 - 200	GX4004	GX5008	GX5108	GX5208	GX7412 - 5	GX7412 - 10	GX7412	GX7800
Performance Characteristics*									
Inspected Throughput	Up to 200 Mbps	Up to 800 Mbps	Up to 1.5 Gbps	Up to 2.5 Gbps	Up to 4 Gbps	Up to 5 Gbps	Up to 10 Gbps	Up to 15 Gbps	Up to 20 Gbps +
Average Latency	<200 µs	<200 µs	<200 µs	<200 µs	<200 µs	<100 µs	<100 µs	<100 µs	<100 µs
Connections per second	35,000	35,000	37,000	40,000	50,000	600,000	600,000	600,000	650,000
Concurrent sessions (max rated)	1,300,000	1,300,000	1,500,000	1,700,000	2,200,000	12,500,000	12,500,000	12,500,000	12,500,000
Physical characteristics									
Form factor	1U	1U	2U	2U	2U	3U	3U	3U	3U
Height (in/mm)	1.75/44	1.75/44	3.5/88	3.5/88	3.5/88	5.25/133	5.25/133	5.25/133	5.25/133
Width (in/mm)	16.9 /429	16.9/429	16.9/429	16.9/429	16.9/429	Front: 18.85/479 Rear: 17.28/439	Front: 18.85/479 Rear: 17.28/439	Front: 18.85/479 Rear: 17.28/439	Front: 18.85/479 Rear: 17.28/439
Depth (in/mm)	15.5/394	15.5/394	21.5/546	21.5/546	21.5/546	26/662	26/662	26/662	26/662
Weight (lb/kg)	24.5/11.1	24.5/11.1	40.0/18	40.0/18	40.0/18	55/25	55/25	55/25	55/25
Management Interface	10/100/1000 (IPv6 supported)	10/100/1000 (IPv6 supported)	10/100/1000 (IPv6 supported)	10/100/1000 (IPv6 supported)	10/100/1000 (IPv6 supported)	10/100/1000 (IPv6 supported)	10/100/1000 (IPv6 supported)	10/100/1000 (IPv6 supported)	10/100/1000 (IPv6 supported)
Inline protected segments	(2) 1 GbE	(2) 1 GbE	(4) 1 GbE	(4) 1 GbE	(4) 1 GbE	(2) 10/1 GbE + (6) 1 GbE	(2) 10/1 GbE + (6) 1 GbE	(2) 10/1 GbE + (6) 1 GbE	(4) 10/1 GbE
Monitoring Interfaces	4x1GbE	4x1GbE	8x1GbE	8x1GbE	8x1GbE	4x10GbE (SFP+) + 12x1GbE (SFP)	4x10GbE (SFP+) + 12x1GbE (SFP)	4x10GbE (SFP+) + 12x1GbE (SFP)	8x10GbE (SFP+)
Supported Physical Media Types	RJ -45	RJ - 45	RJ-45 or SFP/mini-GBIC (1000 TX/SX/LX)	RJ-45 or SFP/mini-GBIC (1000 TX/SX/LX)	RJ-45 or SFP/mini-GBIC (1000 TX/SX/LX)	Direct Attach Copper, RJ-45, Fiber (SX/LX), 10G Fiber (SR/LR)	Direct Attach Copper, RJ-45, Fiber (SX/LX), 10G Fiber (SR/LR)	Direct Attach Copper, RJ-45, Fiber (SX/LX), 10G Fiber (SR/LR)	Direct Attach Copper, RJ-45, Fiber (SX/LX), 10G Fiber (SR/LR)
Redundant power supplies	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Redundant storage	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High availability	Integrated hardware-level bypass	Integrated hardware-level bypass	Active/active; Active/passive; Geo-dispersed HA; External hardware-level bypass (optional)	Active/active; Active/passive; Geo-dispersed HA; External Hardware-level bypass (optional)	Active/active; Active/passive; Geo-dispersed HA; External Hardware-level bypass (optional)	Active/active; Active/passive; Geo-dispersed HA; External Hardware-level bypass (optional)	Active/active; Active/passive; Geo-dispersed HA; External Hardware-level bypass (optional)	Active/active; Active/passive; Geo-dispersed HA; External Hardware-level bypass (optional)	Active/active; Active/passive; Geo-dispersed HA; External Hardware-level bypass (optional)

Electrical and Environment Parameters

Voltage and Input Range	100 - 240V, full range; 50/60 H z								
Input current rating	5 - 3 A		8 - 4 A			10 - 5 A			
Operating temperature	0° to 40° C (32° to 104° F)					5° to 35° C (41° to 95° F)			
Relative humidity	8% to 80% at 28° C (82° F)								
Safety certification/ declaration	UL 60950-1, CAN/CSA C22.2 No. 60950-1, EN 60950-1 (CE Mark), IEC 60950-1, GB4943, GOST, UL-AR								
Electromagnetic compatibility (EMC) certification/ declaration	FCC Class A, Industry Canada Class A, AS/NZS CISPR 22 Class A, EN 55022 Class A (CE Mark), EN 61000-3-2 (CE Mark), EN 61000-3-3 (CE Mark), EN 55024 (CE Mark), VCCI Class A, KCC Class A, GOST Class A, GB9254 Class A, GB17625.1								
Environmental declaration	ROHS, WEEE and REACH								

* Performance data quoted for the IBM Security Network Intrusion Protection System is based on testing with mixed TCP/UDP traffic that is intended to be reflective of typical live traffic. Environmental factors such as protocol mix and average packet size will vary in each network, and measured performance results will vary accordingly. Network Intrusion Prevention System (NIPS) throughput was determined by pushing mixed protocol traffic through the appliance and measuring how much throughput was achieved with zero packet loss. For the benchmark testing, GX7 series appliances were deployed in default inline protection mode with "Trust X-force" policy; Spirent Avalanche 3100 test gear, firmware 3.50 (or later); Traffic mix: HTTP=41%,HTTPS=17%, SMTP=10%,POP3=5%, FTP=9%, DNS=15%, SNMP=3%; HTTP/HTTPS traffic with 44Kb object size with standard HTTP/S 1.1 GET requests; DNS standard A record lookup; FTP GET requests of 15000 bytes in 2ms bursts, POP3 traffic with 100KB objects between two "user" mailboxes, SMTP simple connections with no object transfer, SNMP status query and response.