

IPS 5500 Product Family

Feature Comparison



Model	IPS5500-75EC	IPS 5500-150EC	IPS 5500-150ES	IPS 5500-500EC	IPS 5500-500ES	IPS 5500-1000EC	IPS 5500-1000ES	IPS 5500-2000ES
Interfaces								
Copper Ethernet ports (10BASE-T/100BASE-TX/1000BASE-T)	4	8	0	8	0	8	0	0
Pluggable 1G Ethernet ports (SFP modules)	0	0	8	0	8	0	8	0
Pluggable 10G Ethernet ports (SFP+ modules)	0	0	0	0	0	0	0	6
Management ports (10/100/1000)	2	4	4	4	4	4	4	2
Other ports (Serial Console, Auth, Service)	1 Serial, 1 USB 2.0	1 Serial, 1 USB 2.0	1 Serial, 1 USB 2.0	1 Serial, 1 USB 2.0	1 Serial, 1 USB 2.0	1 Serial, 1 USB 2.0	1 Serial, 1 USB 2.0	1 Serial, 1 USB 2.0
Zero Power Bypass Capability	Internal, 2 port-pairs	Internal, 4 port-pairs	external, optional unit	Internal, 4 port-pairs	external, optional unit	Internal, 4 port-pairs	external, optional unit	external, optional unit
Performance/Capacity								
Target Network Capacity	In-line 100BASE-TX & Lightly Utilized Gigabit Ethernet Networks	In-line 100BASE-TX & Lightly Utilized Gigabit Ethernet Networks	In-line Gigabit Ethernet Network Light Utilization	In-line Gigabit Ethernet Network Moderate Utilization	In-line Gigabit Ethernet Network Moderate Utilization	In-line Gigabit Ethernet Network Heavy Utilization	In-line Gigabit Ethernet Network Heavy Utilization	In-line 10 Gigabit Ethernet Network Moderate Utilization
MAX Throughput	300 Mbps	600+ Mbps	600+ Mbps	2400 Mbps	2400 Mbps	4400 Mbps	4400 Mbps	8000 Mbps
MAX Inspected Throughput	150 Mbps	300+ Mbps	300+ Mbps	1000 Mbps	1000 Mbps	2000 Mbps	2000 Mbps	4000 Mbps
Typical Latency	< 50 uSec	< 50 uSec	< 50 uSec	< 50 uSec	< 50 uSec	< 50 uSec	< 50 uSec	< 50 uSec
Typical Inspected Latency	< 100 uSec	< 100 uSec	< 100 uSec	< 100 uSec	< 100 uSec	< 100 uSec	< 100 uSec	< 100 uSec
MAX Concurrent Sessions	128,000	256,000	256,000	1 Million	1 Million	2 Million	2 Million	4 Million ¹
MAX Session Setup/Teardown	15,000/Sec	40,000/Sec	40,000/Sec	40,000/Sec	40,000/Sec	40,000/Sec	40,000/Sec	50,000/Sec
MAX SYN Flood DoS Protection Rate	150,000/Sec	500,000/Sec	500,000/Sec	1,000,000/Sec	1,000,000/Sec	1,500,000/Sec	1,500,000/Sec	2,000,000/Sec
ProtectionCluster™ Capable	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Physical/Environmental								
Size (H x W x D in centimeters)	1-RU 4.4 x 44 x 51.5	1-RU 4.4 x 44 x 51.5	1-RU 4.4 x 44 x 51.5	1-RU 4.4 x 44 x 51.5	1-RU 4.4 x 44 x 51.5	1-RU 4.4 x 44 x 51.5	1-RU 4.4 x 44 x 51.5	1-RU 4.4 x 44 x 51.5
Weight	16.1 lbs. (7.3 Kgs)	18.1 lbs. (8.2 Kgs)	18.1 lbs. (8.2 Kgs)	18.1 lbs. (8.2 Kgs)	18.1 lbs. (8.2 Kgs)	18.1 lbs. (8.2 Kgs)	18.1 lbs. (8.2 Kgs)	18.1 lbs. (8.2 Kgs)
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
MTBF Rating	>300,000 hours (25°C ambient)	>300,000 hours (25°C ambient)	>300,000 hours (25°C ambient)	>300,000 hours (25°C ambient)	>300,000 hours (25°C ambient)	>300,000 hours (25°C ambient)	>300,000 hours (25°C ambient)	>200,000 hours (25°C ambient)
Power & Cooling								
Power Supplies	Single H/S PSU (2nd Optional)	Dual Hot-swappable Power Supply Units	Dual Hot-swappable Power Supply Units	Dual Hot-swappable Power Supply Units	Dual Hot-swappable Power Supply Units	Dual Hot-swappable Power Supply Units	Dual Hot-swappable Power Supply Units	Dual Hot-swappable Power Supply Units
AC Input	100 to 240 VAC auto-ranging, 50-60Hz	100 to 240 VAC auto-ranging, 50-60Hz	100 to 240 VAC auto-ranging, 50-60Hz	100 to 240 VAC auto-ranging, 50-60Hz	100 to 240 VAC auto-ranging, 50-60Hz	100 to 240 VAC auto-ranging, 50-60Hz	100 to 240 VAC auto-ranging, 50-60Hz	100 to 240 VAC auto-ranging, 50-60Hz
Max Power Consumption	<90W	<95W	< 100W	<95W	< 100W	<95W	< 100W	< 200W
Cooling	Hot-swappable N+1 fan tray	Hot-swappable N+1 fan tray	Hot-swappable N+1 fan tray	Hot-swappable N+1 fan tray	Hot-swappable N+1 fan tray	Hot-swappable N+1 fan tray	Hot-swappable N+1 fan tray	Hot-swappable N+1 fan tray
Compliance & Approvals								
Compliance to EMC Emissions	FCC Part 15-7.10.2008, EN55022: 2006+A1:2007, CISPR22:2005+A1+A2:2005, VCCI-3 2009.04, AS/NZS CISPR22:2006, EN 61000-3-2:2006, EN61000-3-3:1995 +A1:2001+A2:2005, EN61000-3-11:2000, EN 61000-3-12:2005							
Compliance to EMC Immunity	EN55024:1998 including Amendment 1:2001 & Amendment 2:2003(CISPR24:1997 +A1:2001 +A2:2002), EN 61000-4-2:1995 +A1:1998 +A2:2001, EN 61000-4-3:2006, EN 61000-4-4:2004, EN 61000-4-5:2006, EN 61000-4-6:1996 +A1:2001, EN 61000-4-8:1993 +A1:2001, EN 61000-4-11:2004							
Compliance to Safety	UL 60950-1, 2 nd Ed., CSA C22.2 No. 60950-1, 2 nd Ed., EN 60950-1, 2 nd Ed., IEC 60950-1, 2 nd Ed., ROHS Compliant							
International Compliance Approvals	UL Listed, CUL, AS/NZS 3260, CE, FCC Class A, VCCI Class A, ICES-003 Class A							

¹Requires SWV7.X, otherwise 2 Million

Top Layer's IPS appliances scale in performance from 300Mbit/sec to 8Gbit/sec. With Top Layer's ProtectionCluster™, up to 8 IPS appliances can be interconnected to deliver the highest IPS performance in the industry, while transparently supporting redundant H/A network designs. Top Layer IPS can be deployed in a variety of modes, including detection-only, pre-emptive blocking or a combination of both. For more details, please visit www.TopLayer.com/products.jsp.