

### Technical Specifications

<b>HP 3500-48G-PoE+ yl Switch (J9311A)</b>	<b>Ports</b>	<p>1 open module slot</p> <p>44 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>1 RJ-45 serial console port</p> <p>4 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10BASE-T; IEEE 802.3u Type 100BASE-TX; IEEE 802.3ab 1000BASE-T Gigabit Ethernet) with PoE or an open mini-GBIC slot (for use with mini-GBIC transceivers)</p> <p>Supports a maximum of 4 10-GbE ports</p>
	<b>Physical characteristics</b>	<p><b>Dimensions</b> 17.44(w) x 16.93(d) x 1.73(h) in (44.3 x 43.0 x 4.4 cm) (1U height)</p> <p><b>Weight</b> 15.54 lb (7.05 kg)</p>
	<b>Memory and processor</b>	<p><b>10G module</b> ARM9 @ 200 MHz; packet buffer size: 36 Mb QDR SDRAM</p> <p><b>Management Module</b> Stackable memory and processor: Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 128 MB compact flash, 256 MB DDR SDRAM</p>
	<b>Mounting</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
	<b>Performance</b>	<p><b>1000 Mb Latency</b> &lt; 3.4 <math>\mu</math>s (FIFO 64-byte packets)</p> <p><b>10 Gbps Latency</b> &lt; 2.1 <math>\mu</math>s (FIFO 64-byte packets)</p> <p><b>Throughput</b> up to 111.5 million pps</p> <p><b>Routing/Switching capacity</b> 149.8 Gbps</p> <p><b>Switch fabric speed</b> 153.6 Gbps</p> <p><b>Routing table size</b> 10000 entries</p> <p><b>MAC address table size</b> 64000 entries</p>
	<b>Environment</b>	<p><b>Operating temperature</b> 32°F to 131°F (0°C to 55°C); 32°F to 104°F (40°C) when used with any SFP+ 10-GbE</p> <p><b>Operating relative humidity</b> 15% to 95% @ 104°F (40°C), noncondensing</p> <p><b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)</p> <p><b>Nonoperating/Storage relative humidity</b> 15% to 95% @ 149°F (65°C), noncondensing</p> <p><b>Altitude</b> up to 15,000 ft (4.6 km)</p> <p><b>Acoustic</b> Power: 58.0 dB, Pressure: 42.0 dB ISO 7779, ISO 9296</p>
	<b>Electrical characteristics</b>	<p><b>Description</b> The switch automatically adjusts to any voltage between 100-127 and 200-240 V with either 50 or 60 Hz.</p>

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	<b>Maximum heat dissipation</b>	1144 BTU/hr (1206.9 kJ/hr)
	<b>Voltage</b>	100-127/200-240 VAC
	<b>Current</b>	7.3/3.3 A
	<b>Idle power</b>	132 W
	<b>Maximum power rating</b>	638 W
	<b>PoE power</b>	398 W
	<b>Frequency</b>	50/60 Hz
	<b>Notes</b>	<p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</p> <p>The amount of PoE power delivered is dependent on the number and type of power supplies connected. The switches offer optional external power supplies (EPS) for maximum PoE power.</p>
<b>Safety</b>		CSA 22.2 No. 60950; UL 60950; IEC 60950; EN 60950
<b>Emissions</b>		FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
<b>Immunity</b>	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2; 4 kV CD, 8 kV AD
	<b>Radiated</b>	IEC 61000-4-3; 3 V/m
	<b>EFT/Burst</b>	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	<b>Surge</b>	IEC 61000-4-5; 1 kV/2 kV AC
	<b>Conducted</b>	IEC 61000-4-6; 3 V
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	<b>Voltage dips and interruptions</b>	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>		HP PCM+; HP PCM (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
<b>Notes</b>		<p>J8177B Gigabit 1000BASE-T mini-GBIC is not supported on the 3500 series switches.</p> <p>Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).</p>
<b>Services</b>		<p>3-year, 4-hour onsite, 13x5 coverage for hardware (H4496E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (H2893E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support</p>

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and SW updates (U6319E)  
3-year, 24x7 SW phone support, software updates (UE264E)  
1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR894E)  
1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR895E)  
Installation with minimum configuration, system-based pricing (U4826E)  
Installation with HP-provided configuration, system-based pricing (U4830E)  
4-year, 4-hour onsite, 13x5 coverage for hardware (UR884E)  
4-year, 4-hour onsite, 24x7 coverage for hardware (UR885E)  
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR886E)  
4-year, 24x7 SW phone support, software updates (UR887E)  
5-year, 4-hour onsite, 13x5 coverage for hardware (UR888E)  
5-year, 4-hour onsite, 24x7 coverage for hardware (UR889E)  
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR890E)  
5-year, 24x7 SW phone support, software updates (UR891E)  
3 Yr 6 hr Call-to-Repair Onsite (UW365E)  
4 Yr 6 hr Call-to-Repair Onsite (UW366E)  
5 Yr 6 hr Call-to-Repair Onsite (UW367E)  
1-year, 6 hour Call-To-Repair Onsite for hardware (HR898E)  
1-year, 24x7 software phone support, software updates (HR897E)  
1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR896E)  
1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS618E)  
1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS619E)  
3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS620E)  
3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS621E)  
4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS622E)  
4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS623E)  
5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS624E)  
5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS625E)

Refer to the HP website at: [www.hp.com/networking/services](http://www.hp.com/networking/services) for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.