

Aruba 2920 Switch Series Data Sheet



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Leading Network Hardware Supplier

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OVERVIEW

The [Aruba 2920 Switch Series](#) provides security, scalability, and ease of use for enterprise edge, SMB and branch office networks. A powerful ProVision ASIC delivers low latency, more packet buffering, and adaptive power consumption. This Basic Layer 3 switch series supports modular stacking, 10GbE, PoE+, static and RIP routing, Access OSPF routing, Tunneled node, ACLs, sFlow, and IPv6. The 2920 delivers a consistent wired/wireless user experience with advanced security and network management tools with Aruba ClearPass Policy Manager and Aruba AirWave. With support from Aruba Central, you can quickly set up remote branch sites with little or no IT support.

The Aruba 2920 Switch Series provides cost-effective pay as you grow modular stacking with a 2-port stacking module, support for up to four 10GBASE-T (or SFP+) uplinks and upgradeable power supplies so your network can quickly scale when needed. The robust Layer 3 feature set requires no licensing and includes a limited lifetime warranty.

Key Features

- Aruba Layer 3 switch series with stacking, static & RIP routing, IPv6, ACLs, and sFlow.
- Advanced security and network management tools with Aruba ClearPass Policy Manager and Aruba AirWave
- Modular 10GbE uplinks (SFP+ and 10GBASE-T) and upgradeable power supplies for up to 1440W PoE+
- Simple deployment with Zero Touch Provisioning and cloud-based Aruba Central support
- Ready for the software-defined network with REST APIs and OpenFlow support

Models

Aruba 2920 24G Switch	J9726A
Aruba 2920 24G POE+ Switch	J9727A
Aruba 2920 48G Switch	J9728A
Aruba 2920 48G POE+ Switch	J9729A
Aruba 2920-48G-POE+ 740W Switch	J9836A

Ports Description

Aruba 2920 24G Switch



Note:

①	Power, Fault, and Locator LEDs	⑥	Stacking status LEDs
②	Out-of-Band Management port	⑦	Dual-Personality (10/100/1000BASE-T RJ-45 or SFP) ports
③	Console ports	⑧	10/100/1000BASE-T RJ-45 ports
④	LED Mode button and Indicator LEDs	⑨	Aux port
⑤	Status LEDs for components on the back of the switch	⑩	Console ports

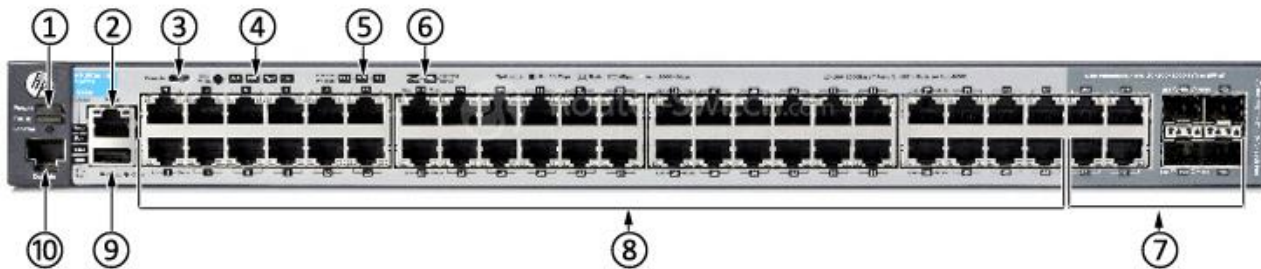
Aruba 2920 24G PoE Switch



Note:

①	Power, Fault, and Locator LEDs	⑥	Stacking status LEDs
②	Out-of-Band Management port	⑦	Dual-Personality (10/100/1000BASE-T PoE+ RJ-45 or SFP) ports
③	Console ports	⑧	10/100/1000BASE-T PoE+ RJ-45 ports
④	LED Mode button and Indicator LEDs	⑨	Aux port
⑤	Status LEDs for components on the back of the switch	⑩	Console ports

Aruba 2920 48G Switch



Note:

①	Power, Fault, and Locator LEDs	⑥	Stacking status LEDs
②	Out-of-Band Management port	⑦	Dual-Personality (10/100/1000BASE-T RJ-45 or SFP) ports
③	Console ports	⑧	10/100/1000BASE-T RJ-45 ports
④	LED Mode button and Indicator LEDs	⑨	Aux port
⑤	Status LEDs for components on the back of the switch	⑩	Console ports

Aruba 2920 Switch Series Rear



Note:

①	Grounding lug mounting hole
②	10G Expansion Module slots
③	Stacking Module slot
④	XPS Connector
⑤	Power Supply and AC power connector

SPECIFICATIONS

These tables shows models of Aruba 2920 series.

Aruba 2920 24G Switch (J9726A)	
I/O ports and slots	20 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 RJ-45 dual-personality 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) 2 module slots
Additional ports	1 stacking module slot

and slots	1 dual-personality (RJ-45 or USB micro-B) 1 USB 1.1 1 RJ-45 out-of-band management port	
Power supplies	1 power supply slot 1 minimum power supply required includes: 1 x J9739A (HPE X331 165W 100-240VAC to 12VDC Modular Power Supply)	
Physical characteristics	Dimensions	17.42(w) x 13.23(d) x 1.75(h) in (44.25 x 33.6 x 4.45 cm) (1U height)
	Weight	11.57 lb (5.25 kg)
Memory and processor	Tri Core ARM1176 @ 625 MHz, 512 MB SDRAM, 1 GB flash MB; packet buffer size: 11.25 MB (6.75 MB dynamic egress + 4.5 MB ingress)	
Performance	100 Mb Latency	< 9.0 μ s (FIFO 64-byte packets)
	1000 Mb Latency	< 3.3 μ s (FIFO 64-byte packets)
	10 Gbps Latency	< 3.3 μ s (FIFO 64-byte packets)
	Throughput	up to 95.2 Mpps
	Switching capacity	128 Gbps
	Routing table size	2048 entries (IPv4), 256 entries (IPv6)
	MAC address table size	16000 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
	Operating relative humidity	15% to 95%, noncondensing
	Non-operating/ Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/ Storage relative humidity	15% to 95%, noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 57 dB, Pressure: 41.4 dB
Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Silver
	Maximum heat dissipation	198 BTU/hr (208.89 kJ/hr)
	Voltage	100 - 240 VAC, rated
	Maximum power rating	58 W
	Idle power	26 W
	NOTES	Idle power is the actual power consumption of the device with no ports connected. 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.
Safety	CE Labeled; EN 60825-1 Safety of Laser Products-Part 1; FCC Part 15, Subpart B; GOST; EU RoHS Compliant; EN 55022 Class A; EN 55024: 1998; C-Tick; ICES-003, Class A; VCCI Class A; IEC 60950-1 :Second Edition ; IEC 60825-1; EN62479:2010; CSA C22.2 No. 60950-1-07 2nd Edition; EN 60950-1:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1 (ed.2): am1	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022/CISPR 22 Class A	

Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC 61000-3-2
	Flicker	IEC 61000-3-3
Management	Aruba AirWave Network Management; Aruba Central; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Telnet; RMON1; FTP; In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	
Aruba 2920 24G POE+ Switch (J9727A)		
I/O ports and slots	20 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 RJ-45 dual-personality 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+) 2 module slots	
Additional ports and slots	1 stacking module slot 1 dual-personality (RJ-45 or USB micro-B) 1 USB 1.1 1 RJ-45 out-of-band management port	
Power supplies	1 power supply slot 1 minimum power supply required includes: 1 x J9738A (HPE X332 575W 100-240VAC to 54VDC Modular Power Supply)	
Physical characteristics	Dimensions	17.42(w) x 13.23(d) x 1.75(h) in (44.25 x 33.6 x 4.45 cm) (1U height)
	Weight	12.04 lb (5.46 kg)
Memory and processor	Tri Core ARM1176 @ 625 MHz, 512 MB SDRAM, 1 GB flash; packet buffer size: 11.25 MB (6.5 MB dynamic egress + 4.5 MB ingress)	
Performance	100 Mb Latency	< 9.0 μs (FIFO 64-byte packets)
	1000 Mb Latency	< 3.3 μs (FIFO 64-byte packets)
	10 Gbps Latency	< 3.3 μs (FIFO 64-byte packets)
	Throughput	up to 95.2 Mpps
	Switching capacity	128 Gbps
	Routing table size	2048 entries (IPv4), 256 entries (IPv6)
	MAC address table size	16000 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C)

	Operating relative humidity	15% to 95%, noncondensing
	Non-operating/ Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/ Storage relative humidity	15% to 95%, noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 61 dB, Pressure: 44.9 dB
Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Silver
	Maximum heat dissipation	358 BTU/hr (377.69 kJ/hr)
	Voltage	100 - 240 VAC, rated
	Maximum power rating	475 W
	Idle power	42 W
	PoE power	370 W PoE+
	NOTES	<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>PoE power is the power supplied by the internal power supply.</p> <p>It is dependent on the type and quantity of power supplies and may be supplemented with the use of an external power supply (EPS).</p> <p>370 W of PoE+ power is available using the internal default power supply.</p>
Safety	CE Labeled; EN 60825-1 Safety of Laser Products-Part 1; FCC Part 15, Subpart B; GOST; EU RoHS Compliant; EN 55022 Class A; EN 55024: 1998; C-Tick; ICES-003, Class A; VCCI Class A; IEC 60950-1 :Second Edition ; IEC 60825-1; EN62479:2010; CSA C22.2 No. 60950-1-07 2nd Edition; EN 60950-1:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1 (ed.2): am1	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC 61000-3-2
	Flicker	IEC 61000-3-3
Management	Aruba AirWave Network Management; Aruba Central; IMC – Intelligent Management Center;	

	Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Telnet; RMON1; FTP; In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	
Aruba 2920 48G Switch (J9728A)		
I/O ports and slots	44 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 RJ-45 dual-personality 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) 2 module slots	
Additional ports and slots	1 stacking module slot 1 dual-personality (RJ-45 or USB micro-B) 1 USB 1.1 1 RJ-45 out-of-band management port	
Power supplies	1 power supply slot 1 minimum power supply required includes: 1 x J9739A (HPE X331 165W 100-240VAC to 12VDC Modular Power Supply)	
Physical characteristics	Dimensions	17.42(w) x 13.23(d) x 1.75(h) in (44.25 x 33.6 x 4.45 cm) (1U height)
	Weight	11.95 lb (5.42 kg)
Memory and processor	Tri Core ARM1176 @ 625 MHz, 512 MB SDRAM, 1 GB flash; packet buffer size: 11.25 MB (6.75 MB dynamic egress + 4.5 MB ingress)	
Performance	100 Mb Latency	< 9.0 μ s (FIFO 64-byte packets)
	1000 Mb Latency	< 3.3 μ s (FIFO 64-byte packets)
	10 Gbps Latency	< 3.2 μ s (FIFO 64-byte packets)
	Throughput	up to 130.9 Mpps
	Switching capacity	176 Gbps
	Routing table size	2048 entries (IPv4), 256 entries (IPv6)
	MAC address table size	16000 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
	Operating relative humidity	15% to 95%, noncondensing
	Non-operating/ Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/ Storage relative humidity	15% to 95%, noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 57 dB, Pressure: 41.8 dB
Electrical characteristics	Frequency	50/60 Hz
		Achieved Miercom Certified Green Award
	80plus.org Certification	Silver
	Maximum heat dissipation	239 BTU/hr (252.15 kJ/hr)
	Voltage	100 - 240 VAC, rated
	Maximum power rating	70 W

	Idle power	27 W
	NOTES	<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>
Safety	CE Labeled; EN 60825-1 Safety of Laser Products-Part 1; FCC Part 15, Subpart B; GOST; EU RoHS Compliant; EN 55022 Class A; EN 55024: 1998; C-Tick; ICES-003, Class A; VCCI Class A; IEC 60825-1; IEC 60950-1, Second Edition; EN62479:2010; CSA C22.2 No. 60950-1-07 2nd Edition; EN 60950-1:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1 (ed.2): am1	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics Flicker	IEC 61000-3-2 IEC 61000-3-3
Management	Aruba AirWave Network Management; Aruba Central; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Telnet; RMON1; FTP; In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	
Aruba 2920 48G POE+ Switch (J9729A)		
I/O ports and slots	<p>44 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</p> <p>4 RJ-45 dual-personality 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+)</p> <p>2 module slots</p>	
Additional ports and slots	<p>1 stacking module slot</p> <p>1 dual-personality (RJ-45 or USB micro-B)</p> <p>1 USB 1.1</p> <p>1 RJ-45 out-of-band management port</p>	
Power supplies	<p>1 power supply slot</p> <p>1 minimum power supply required</p> <p>includes: 1 x J9738A (HPE X332 575W 100-240VAC to 54VDC Modular Power Supply)</p>	

Physical characteristics	Dimensions	17.42(w) x 13.23(d) x 1.73(h) in (44.25 x 33.6 x 4.39 cm) (1U height)
	Weight	12.57 lb (5.7 kg)
Memory and processor	Tri Core ARM1176 @ 625 MHz, 512 MB SDRAM, 1 GB flash; packet buffer size: 11.25 MB (6.75 MB dynamic egress + 4.5 MB ingress)	
Performance	100 Mb Latency	< 9.0 μ s (FIFO 64-byte packets)
	1000 Mb Latency	< 3.2 μ s (FIFO 64-byte packets)
	10 Gbps Latency	< 3.2 μ s (FIFO 64-byte packets)
	Throughput	up to 130.9 Mpps
	Switching capacity	176 Gbps
	Routing table size	2048 entries (IPv4), 256 entries (IPv6)
	MAC address table size	16000 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
	Operating relative humidity	15% to 95%, noncondensing
	Non-operating/ Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/ Storage relative humidity	15% to 95%, noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 62 dB, Pressure: 45.2 dB
Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Silver
	Maximum heat dissipation	399 BTU/hr (420.95 kJ/hr)
	Voltage	100 - 240 VAC, rated
	Maximum power rating	487 W
	Idle power	46 W
	PoE power	370 W PoE+
	NOTES	<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>PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be supplemented with the use of an external power supply (EPS).</p> <p>370 W of PoE+ power is available using the internal default power supply.</p>
Safety	CE Labeled; EN 60825-1 Safety of Laser Products-Part 1; FCC Part 15, Subpart B; GOST; EU RoHS Compliant; EN 55022 Class A; EN 55024: 1998; C-Tick; ICES-003, Class A; VCCI Class A; IEC 60825-1; IEC 60950-1, Second Edition; EN62479:2010; CSA C22.2 No. 60950-1-07 2nd Edition; EN 60950-1:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1 (ed.2): am1	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity	EN	EN 55024, CISPR 24

	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC 61000-3-2
	Flicker	IEC 61000-3-3
Management	Aruba AirWave Network Management; Aruba Central; IMC - Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Telnet; RMON1; FTP; In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	

Aruba 2920-48G-POE+ 740W Switch (J9836A)

I/O ports and slots	44 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 RJ-45 dual-personality 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+) 2 module slots	
Additional ports and slots	1 stacking module slot 1 dual-personality (RJ-45 or USB micro-B) 1 USB 1.1 1 RJ-45 out-of-band management port	
Power supplies	1 power supply slot 1 minimum power supply required includes: 1 x J9737A (HPE X332 1050W 110-240VAC to 54VDC Power Supply)	
Physical characteristics	Dimensions	17.42(w) x 13.23(d) x 1.73(h) in (44.25 x 33.6 x 4.39 cm) (1U height)
	Weight	12.86 lb (5.83 kg)
Memory and processor	Tri Core ARM1176 @ 625 MHz, 512 MB SDRAM, 1 GB flash; packet buffer size: 11.25 MB (6.75 MB dynamic egress + 4.5 MB ingress)	
Performance	100 Mb Latency	< 9.0 μs (FIFO 64-byte packets)
	1000 Mb Latency	< 3.2 μs (FIFO 64-byte packets)
	10 Gbps Latency	< 3.2 μs (FIFO 64-byte packets)
	Throughput	up to 130.9 Mpps
	Switching capacity	176 Gbps
	Routing table size	2048 entries (IPv4), 256 entries (IPv6)
	MAC address table size	16000 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
	Operating relative	15% to 95%, noncondensing

	humidity	
	Non-operating/ Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/ Storage relative humidity	15% to 95%, noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 53 dB, Pressure: 38.3 dB
Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Gold
	Maximum heat dissipation	399 BTU/hr (420.95 kJ/hr)
	Voltage	110 - 240 VAC, rated
	Maximum power rating	881 W
	Idle power	52 W
	PoE power	740 W PoE+
	NOTES	<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>PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be supplemented with the use of an external power supply (EPS).</p> <p>Idle power is the actual power consumption of the device with no ports connected. 740 W of PoE+ power is available using the internal default power supply.</p>
Safety	CE Labeled; EN 60825-1 Safety of Laser Products-Part 1; FCC Part 15, Subpart B; GOST; EU RoHS Compliant; EN 55022 Class A; EN 55024: 1998; C-Tick; ICES-003, Class A; VCCI Class A; IEC 60950-1 :Second Edition ; IEC 60825-1; EN62479:2010; CSA C22.2 No. 60950-1-07 2nd Edition; EN 60950-1:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1 (ed.2): am1	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11

	Harmonics	IEC 61000-3-2
	Flicker	IEC 61000-3-3
Management	Aruba AirWave Network Management; Aruba Central; IMC - Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Telnet; RMON1; FTP; In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	
Standards and protocols (applies to all products in series)		
Denial of service protection	CPU DoS Protection	
Device Management	RFC 1155 Structure and Mgmt Information (SMIv1) RFC 1157 SNMPv1/v2c RFC 1591 DNS (client) RFC 1901 (Community based SNMPv2) RFC 1901-1907 SNMPv2c, SMIv2 and Revised MIB-II RFC 1908 (SNMP v1/2 Coexistence) RFC 2576 (Coexistence between SNMP V1, V2, V3) RFC 2578-2580 SMIv2 RFC 2579 (SMIv2 Text Conventions) RFC 2580 (SMIv2 Conformance) RFC 2819 (RMON groups Alarm, Event, History and Statistics only) RFC 3416 (SNMP Protocol Operations v2) RFC 3417 (SNMP Transport Mappings) HTML and telnet management HTTP, SSHv1, and Telnet Multiple Configuration Files Multiple Software Images SNMP v3 and RMON RFC support SSHv1/SSHv2 Secure Shell TACACS/TACACS+ Web UI	
General Protocols	IEEE 802.1AX-2008 Link Aggregation IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1v VLAN classification by Protocol and Port IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3at PoE+ IEEE 802.3az Energy Efficient Ethernet IEEE 802.3x Flow Control	

RFC 768 UDP
RFC 783 TFTP Protocol (revision 2)
RFC 792 ICMP
RFC 793 TCP
RFC 826 ARP
RFC 854 TELNET
RFC 868 Time Protocol
RFC 951 BOOTP
RFC 1058 RIPv1
RFC 1256 ICMP Router Discovery Protocol (IRDP)
RFC 1350 TFTP Protocol (revision 2)
RFC 1519 CIDR
RFC 1542 BOOTP Extensions
RFC 1918 Address Allocation for Private Internet
RFC 2030 Simple Network Time Protocol (SNTP) v4
RFC 2131 DHCP
RFC 2236 IGMP Snooping
RFC 2453 RIPv2
RFC 2865 Remote Authentication Dial In User Service (RADIUS)
RFC 2866 RADIUS Accounting
RFC 3046 DHCP Relay Agent Information Option
RFC 3411 An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks
RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)
RFC 3413 Simple Network Management Protocol (SNMP) Applications
RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)
RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)
RFC 3416 Protocol Operations for SNMP
RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)
RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
RFC 3575 IANA Considerations for RADIUS
RFC 3576 Ext to RADIUS (CoA only)
RFC 4541 Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches
RFC 4675 RADIUS VLAN & Priority
RFC 4861 Neighbor Discovery for IP version 6 (IPv6)
RFC 4862 IPv6 Stateless Address Autoconfiguration
RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification

	UDLD (Uni-directional Link Detection)
IP Multicast	<p>RFC 1112 IGMP</p> <p>RFC 2236 IGMPv2</p> <p>RFC 2710 Multicast Listener Discovery (MLD) for IPv6</p> <p>RFC 3376 IGMPv3</p> <p>RFC 4541 Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches</p>
IPv6	<p>RFC 1981 IPv6 Path MTU Discovery</p> <p>RFC 2080 RIPng for IPv6</p> <p>RFC 2081 RIPng Protocol Applicability Statement</p> <p>RFC 2082 RIP-2 MD5</p> <p>RFC 2460 IPv6 Specification</p> <p>RFC 2464 Transmission of IPv6 over Ethernet Networks</p> <p>RFC 2710 Multicast Listener Discovery (MLD) for IPv6</p> <p>RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)</p> <p>RFC 2925 Remote Operations MIB (Ping only)</p> <p>RFC 3019 MLDv1 MIB</p> <p>RFC 3315 DHCPv6 (client and relay)</p> <p>RFC 3484 Default Address Selection for IPv6</p> <p>RFC 3513 IPv6 Addressing Architecture</p> <p>RFC 3596 DNS Extension for IPv6</p> <p>RFC 3810 MLDv2 for IPv6</p> <p>RFC 4022 MIB for TCP</p> <p>RFC 4113 MIB for UDP</p> <p>RFC 4251 SSHv6 Architecture</p> <p>RFC 4252 SSHv6 Authentication</p> <p>RFC 4253 SSHv6 Transport Layer</p> <p>RFC 4254 SSHv6 Connection</p> <p>RFC 4291 IP Version 6 Addressing Architecture</p> <p>RFC 4293 MIB for IP</p> <p>RFC 4419 Key Exchange for SSH</p> <p>RFC 4443 ICMPv6</p> <p>RFC 4541 IGMP & MLD Snooping Switch</p> <p>RFC 4861 IPv6 Neighbor Discovery</p> <p>RFC 4862 IPv6 Stateless Address Auto-configuration</p> <p>RFC 5095 Deprecation of Type 0 Routing Headers in IPv6</p> <p>RFC 6620 FCFS SAVI</p> <p>draft-ietf-savi-mix</p>
MIBs	<p>IEEE 802.1ap (MSTP and STP MIB's only)</p> <p>IEEE 8021-Bridge-MIB (2008)</p> <p>IEEE 8021-Q-Bridge-MIB (2008)</p>

	<p> RFC 1155 Structure & ID of Mgmt Info for TCP/IP Internets RFC 1156 (TCP/IP MIB) RFC 1157 A Simple Network Management Protocol (SNMP) RFC 1213 MIB II RFC 1493 Bridge MIB RFC 1724 RIPv2 MIB RFC 2021 RMONv2 MIB RFC 2578 Structure of Management Information Version 2 (SMIv2) RFC 2579 Textual Conventions for SMIv2 RFC 2580 Conformance Statements for SMIv2 RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting MIB RFC 2665 Ethernet-Like-MIB RFC 2668 802.3 MAU MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2737 Entity MIB (Version 2) RFC 2819 RMON MIB RFC 2863 The Interfaces Group MIB RFC 2925 Ping MIB RFC 2932 IP (Multicast Routing MIB) RFC 2933 IGMP MIB RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB RFC 3417 Simple Network Management Protocol (SNMP) over IEEE 802 Networks RFC 3418 MIB for SNMPv3 RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU) </p>
Network Management	<p> IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 1155 Structure of Management Information RFC 1157 SNMPv1 RFC 2021 Remote Network Monitoring Management Information Base Version 2 using SMIv2 RFC 2576 Coexistence between SNMP versions RFC 2578 Structure of Management Information Version 2 (SMIv2) RFC 2579 Textual Conventions for SMIv2 RFC 2580 Conformance Statements for SMIv2 RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) RFC 2819 Remote Network Monitoring Management Information Base RFC 2856 Textual Conventions for Additional High Capacity Data Types RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations RFC 3164 BSD syslog Protocol </p>

	<p>RFC 3176 sFlow</p> <p>RFC 3411 SNMP Management Frameworks</p> <p>RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)</p> <p>RFC 3413 Simple Network Management Protocol (SNMP) Applications</p> <p>RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)</p> <p>RFC 3415 SNMPv3 View-based Access Control Model VACM)</p> <p>RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)</p> <p>RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)</p> <p>RFC 5424 Syslog Protocol</p> <p>ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)</p> <p>SNMPv1/v2c/v3</p> <p>XRMON</p>
QoS/CoS	<p>IEEE 802.1p (CoS)</p> <p>RFC 2474 DiffServ Precedence, including 8 queues/port</p> <p>RFC 2475 DiffServ Architecture</p> <p>RFC 2597 DiffServ Assured Forwarding (AF)</p> <p>RFC 2598 DiffServ Expedited Forwarding (EF)</p> <p>Ingress Rate Limiting</p>
Security	<p>IEEE 802.1X Port Based Network Access Control</p> <p>RFC 1321 The MD5 Message-Digest Algorithm</p> <p>RFC 1334 PPP Authentication Protocols (PAP)</p> <p>RFC 1492 An Access Control Protocol, Sometimes Called TACACS</p> <p>RFC 1492 TACACS+</p> <p>RFC 1994 PPP Challenge Handshake Authentication Protocol (CHAP)</p> <p>RFC 2082 RIP-2 MD5 Authentication</p> <p>RFC 2104 Keyed-Hashing for Message Authentication</p> <p>RFC 2138 RADIUS Authentication</p> <p>RFC 2139 RADIUS Accounting</p> <p>RFC 2246 Transport Layer Security (TLS)</p> <p>RFC 2548 Microsoft Vendor-specific RADIUS Attributes</p> <p>RFC 2618 RADIUS Authentication Client MIB</p> <p>RFC 2620 RADIUS Accounting Client MIB</p> <p>RFC 2716 PPP EAP TLS Authentication Protocol</p> <p>RFC 2818 HTTP Over TLS</p> <p>RFC 2865 RADIUS (client only)</p> <p>RFC 2865 RADIUS Authentication</p> <p>RFC 2866 RADIUS Accounting</p> <p>RFC 2867 RADIUS Accounting Modifications for Tunnel Protocol Support</p>

<p>RFC 2868 RADIUS Attributes for Tunnel Protocol Support</p> <p>RFC 2869 RADIUS Extensions</p> <p>RFC 2882 NAS Requirements: Extended RADIUS Practices</p> <p>RFC 3162 RADIUS and IPv6</p> <p>RFC 3576 Dynamic Authorization Extensions to RADIUS</p> <p>RFC 3579 RADIUS Support For Extensible Authentication Protocol (EAP)</p> <p>RFC 3580 IEEE 802.1X RADIUS</p> <p>RFC 3580 IEEE 802.1X Remote Authentication Dial In User Service (RADIUS) Usage Guidelines</p> <p>RFC 4576 RADIUS Attributes</p> <p>Access Control Lists (ACLs)</p> <p>draft-grant-tacacs-02 (TACACS)</p> <p>Guest VLAN for 802.1X</p> <p>MAC Authentication</p> <p>MAC Lockdown</p> <p>MAC Lockout</p> <p>Port Security</p> <p>Secure Sockets Layer (SSL)</p> <p>SSHv2 Secure Shell</p> <p>Web Authentication</p>
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The table shows the Aruba 2920 Switch Series accessories.

Modules	
Aruba 2920 2-port 10GbE SFP+ Module	J9731A
Aruba 2920 2-port 10GBASE-T Module	J9732A
Aruba 2920 2-port Stacking Module	J9733A
Transceivers	
HPE X121 1G SFP LC SX Transceiver	J4858C
HPE X121 1G SFP LC LX Transceiver	J4859C
HPE X121 1G SFP LC LH Transceiver	J4860C
HPE X111 100M SFP LC FX Transceiver	J9054C
HPE X132 10G SFP+ LC SR Transceiver	J9150A
HPE X132 10G SFP+ LC LR Transceiver	J9151A
HPE X132 10G SFP+ LC LRM Transceiver	J9152A
HPE X132 10G SFP+ LC ER Transceiver	J9153A
HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HPE X242 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable	JH234A

HPE X242 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable	JH235A
HPE X242 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable	JH236A
Cables	
HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
Aruba 2920/2930M 0.5m Stacking Cable	J9734A
Aruba 2920/2930M 1m Stacking Cable	J9735A
Aruba 2920/2930M 3m Stacking Cable	J9736A
Mounting Kit	
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