



Aruba 3810 Switch Series Data Sheet



Router-Switch.com
Leading Network Hardware Supplier

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OVERVIEW

The [Aruba 3810 Switch Series](#) provides performance and resiliency for enterprises, SMBs, and branch office networks. With HPE Smart Rate multi-gigabit ports for high speed access points and IoT devices, this advanced Layer 3 network switch delivers a better application experience with low latency, virtualization with resilient stacking technology, and line rate 40GbE for plenty of backhaul capacity.

A powerful Aruba ProVision ASIC delivers performance, robust feature support, and value with flexible programmability for the latest applications. The 3810 delivers resiliency and scalability via innovative backplane stacking technology and redundant, hot-swappable power supplies all in a convenient 1U form factor. It supports an advanced Layer 2 and 3 feature set with OSPF, IPv6, IPv4 BGP, Dynamic Segmentation, robust QoS, and policy-based routing are included with no software licensing.

The 3810M is easy to deploy, use and manage using Aruba AirWave or Aruba Central. Aruba ClearPass offers centralized security and external captive portal support. The switches offer a limited lifetime warranty.



Key Features

- Advanced Layer 3 switch series with backplane stacking, dynamic segmentation, low latency and resiliency
- Advanced security and network management via Aruba ClearPass Policy Manager, Aruba AirWave and Aruba Central
- Modular 10GbE and 40GbE uplinks for wireless aggregation
- HPE Smart Rate for high-speed multi-gigabit capacity and PoE+ power
- Software-defined ready with REST APIs and OpenFlow support

Models

Aruba 3810M 24G 1-slot Switch	JL071A
Aruba 3810M 48G 1-slot Switch	JL072A
Aruba 3810M 24G PoE+ 1-slot Switch	JL073A
Aruba 3810M 48G PoE+ 1-slot Switch	JL074A
Aruba 3810M 16SFP+ 2-slot Switch	JL075A
Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch	JL076A
Aruba 3810M 48G PoE+ 4SFP+ 680W Switch	JL428A
Aruba 3810M 48G PoE+ 4SFP+ 1050W Switch	JL429A
Aruba 3810M 24SFP+ 250W Switch	JL430A

SPECIFICATIONS

These tables shows models of Aruba 3810 series.

Aruba 3810M 24G 1-slot Switch (JL071A)		
Included accessories	1 Aruba 3810 Switch Fan Tray (JL088A)	
I/O ports and slots	24 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; Ports 1 - 24 support MACSec Supports a maximum of 4 SFP+ ports or 1 40GbE ports, with optional module	
	1 open module slot	
	Supports a maximum of 4 SFP+ ports or 1 40GbE ports, with optional module	
Additional ports and slots	1 stacking module slot	
	1 RJ-45 serial console port	
	1 RJ-45 out-of-band management port	
	1 dual-personality (RJ-45 or USB micro-B)	
Power supplies	2 power supply slots	
	1 minimum power supply required (ordered separately)	
Fan tray	includes: 1 x JL088A 1 fan tray slot Switch ships with 1 JL088A fan tray installed. Spares ordered separately.	
Physical characteristics	Dimensions	17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)
	Weight	12.76 lb (5.79 kg)
Memory and processor	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card	
	Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal	
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface mounting only	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 2.8 μs (FIFO 64-byte packets)
	10 Gbps Latency	< 1.8 μs (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 μs (FIFO 64-byte packets)

	Throughput	up to 95.2 Mpps (64-byte packets)
	Routing/Switching capacity	160 Gbps
	Switch fabric speed	169 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 39 dB, Pressure: 22.8 dB
	Primary Airflow Direction	Front-to-side and front-to-rear
Electrical Characteristics	Frequency	50/60Hz
	Voltage	JL085A PSU: 100-127/200-240 VAC
	Current	JL085A PSU (Each): 1A/0.5A
	Max/Idle Power Rating (Switch+ 1 PSU)	JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W
	Maximum Heat Dissipation *(Max Case)	310.31
	PoE Power (Max Possible)	N/A
	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 provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product. *Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator.
Safety	EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN	

	62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013	
Immunity	Generic	EN55022: 2010
	EN	EN55024: 2010
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN61000-3-2:2006 +A1:2009 +A2:2009 Class A
Flicker	EN61000-3-3:2008	
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	

Aruba 3810M 48G 1-slot Switch ([JL072A](#))

Included accessories	1 Aruba 3810 Switch Fan Tray (JL088A)	
I/O ports and slots	48 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; Ports 1 - 48 support MACSec	
	1 open module slot	
	Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module	
Additional ports and slots	1 stacking module slot	
	1 RJ-45 serial console port	
	1 RJ-45 out-of-band management port	
	1 dual-personality (RJ-45 or USB micro-B)	
Power supplies	2 power supply slots	
	1 minimum power supply required (ordered separately)	
Fan tray	includes: 1 x JL088A 1 fan tray slot Switch ships with 1 JL088A fan tray installed. Spares ordered separately.	
Physical characteristics	Dimensions	17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)
	Weight	13.20 lb (5.99 kg)
Memory and processor	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card	
	Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal	

Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface mounting only	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
	10 Gbps Latency	< 1.8 μ s (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 μ s (FIFO 64-byte packets)
	Throughput	up to 190.5 Mpps (64-byte packets)
	Routing/Switching capacity	320 Gbps
	Switch fabric speed	338 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 38 dB, Pressure: 21.8 dB
	Primary Airflow Direction	Front-to-side and front-to-rear
Electrical Characteristics	Frequency	50/60Hz
	Voltage	JL085A PSU: 100-127/200-240 VAC
	Current	JL085A PSU (Each): 1A/0.5A
	Max/Idle Power Rating (Switch+ 1 PSU)	95W/78W
	Second PSU Power Adder	10W
	Max/Idle Uplink Power Adder	JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W
	Maximum Heat Dissipation *(Max Case)	395.56
	PoE Power (Max Possible)	N/A
	Notes	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat

		<p>dissipation are the worst case theoretical maximum numbers provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product.</p> <p>*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator.</p>
Safety	EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013	
Immunity	Generic	EN55022: 2010
	EN	EN55024: 2010
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN61000-3-2:2006 +A1:2009 +A2:2009 Class A
Flicker	EN61000-3-3:2008	
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	
Aruba 3810M 24G PoE+ 1-slot Switch (JL073A)		
Included accessories	1 Aruba 3810 Switch Fan Tray (JL088A)	
I/O ports and slots	24 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; Ports 1 - 24 support MACSec	
	1 open module slot	
	Supports a maximum of 4 SFP+ ports or 1 40GbE ports, with optional module	
Additional ports and slots	1 stacking module slot	
	1 RJ-45 serial console port	
	1 RJ-45 out-of-band management port	
	1 dual-personality (RJ-45 or USB micro-B)	

Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	
Fan tray	includes: 1 x JL088A 1 fan tray slot Switch ships with 1 JL088A fan tray installed. Spares ordered separately	
Physical characteristics	Dimensions	17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)
	Weight	13.02 lb (5.91 kg)
Memory and processor	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card	
	Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal	
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface mounting only	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
	10 Gbps Latency	< 1.8 μ s (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 μ s (FIFO 64-byte packets)
	Throughput	up to 95.2 Mpps (64-byte packets)
	Routing/Switching capacity	160 Gbps
	Switch fabric speed	169 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 44 dB, Pressure: 27.6 dB
	Primary Airflow Direction	Front-to-side and front-to-rear
Electrical Characteristics	Frequency	50/60Hz
	Voltage	JL086A PSU: 100-127/200-240 VAC JL087A PSU: 110-127/200-240 VAC
	Current	JL086A PSU (Each): 5A/2.5A JL087A PSU (Each): 8.5A/5A
	Max/Idle Power Rating (Switch+ 1 PSU)	95W/82W
	Second PSU Power Adder	10W

	Max/Idle Uplink Power Adder	JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W
	Maximum Heat Dissipation *(Max Case)	395.56
	PoE Power (Max Possible)	840W
	Notes	<p>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 provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product.</p> <p>*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator.</p>
Safety	EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013	
Immunity	Generic	EN55022: 2010
	EN	EN55024: 2010
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN61000-3-2:2006 +A1:2009 +A2:2009 Class A
Flicker	EN61000-3-3:2008	
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	

Aruba 3810M 48G PoE+ 1-slot Switch (JL074A)		
Included accessories	1 Aruba 3810 Switch Fan Tray (JL088A)	
I/O ports and slots	48 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; Ports 1 - 48 support MACSec	
	1 open module slot	
	Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module	
Additional ports and slots	1 stacking module slot	
	1 RJ-45 serial console port	
	1 RJ-45 out-of-band management port	
	1 dual-personality (RJ-45 or USB micro-B)	
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	
Fan tray	includes: 1 x JL088A 1 fan tray slot Switch ships with 1 JL088A fan tray installed. Spares ordered separately.	
Physical characteristics	Dimensions	17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)
	Weight	13.62 lb (6.18 kg)
Memory and processor	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card	
	Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal	
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface mounting only	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
	10 Gbps Latency	< 1.8 μ s (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 μ s (FIFO 64-byte packets)
	Throughput	up to 190.5 Mpps (64-byte packets)
	Routing/Switching capacity	320 Gbps
	Switch fabric speed	338 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)

	Acoustic	Power: 47 dB, Pressure: 29.4 dB
	Primary Airflow Direction	Front-to-side and front-to-rear
Electrical Characteristics	Frequency	50/60Hz
	Voltage	JL086A PSU: 100-127/200-240 VAC JL087A PSU: 110-127/200-240 VAC
	Current	JL086A PSU (Each): 5A/2.5A JL087A PSU (Each): 8.5A/5A
	Max/Idle Power Rating (Switch+ 1 PSU)	135W/103W
	Second PSU Power Adder	10W
	Max/Idle Uplink Power Adder	JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W
	Maximum Heat Dissipation *(Max Case)	531.96
	PoE Power (Max Possible)	1440W
	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 provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product. *Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator.
Safety	EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013	
Immunity	Generic	EN55022: 2010
	EN	EN55024: 2010
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)

	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN61000-3-2:2006 +A1:2009 +A2:2009 Class A
	Flicker	EN61000-3-3:2008
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	
Aruba 3810M 16SFP+ 2-slot Switch (JL075A)		
Included accessories	1 Aruba 3810 Switch Fan Tray (JL088A)	
I/O ports and slots	16 SFP+ fixed 1000/10000 SFP+ ports; Duplex: 100BASE-TX: half or full; 1000BASE-T: full only; Ports 1 - 16 support MACSec	
	2 open module slots	
	Supports a maximum of 8 SFP+ ports or 2 40GbE ports, with optional module	
Additional ports and slots	1 stacking module slot	
	1 RJ-45 serial console port	
	1 RJ-45 out-of-band management port	
	1 dual-personality (RJ-45 or USB micro-B)	
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	
Fan tray	includes: 1 x JL088A 1 fan tray slot Switch ships with 1 JL088A fan tray installed. Spares ordered separately.	
Physical characteristics	Dimensions	17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)
	Weight	13.28 lb (6.02 kg)
Memory and processor	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal	
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface mounting only	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 2.8 μs (FIFO 64-byte packets)
	10 Gbps Latency	< 1.8 μs (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 μs (FIFO 64-byte packets)
	Throughput	up to 285.7 Mpps (64-byte packets)
	Routing/Switching capacity	480 Gbps
	Switch fabric speed	508 Gbps

	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 39 dB, Pressure: 22.3 dB
	Primary Airflow Direction	Front-to-side and front-to-rear
	Electrical Characteristics	Frequency
Voltage		JL085A PSU: 100-127/200-240 VAC
Current		JL085A PSU (Each): 1A/0.5A
Max/Idle Power Rating (Switch+ 1 PSU)		120W/95W
Second PSU Power Adder		10W
Max/Idle Uplink Power Adder		JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W
Maximum Heat Dissipation *(Max Case)		480.81
PoE Power (Max Possible)		N/A
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 provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product. *Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator
Safety	EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN	

	62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013	
Immunity	Generic	EN55022: 2010
	EN	EN55024: 2010
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN61000-3-2:2006 +A1:2009 +A2:2009 Class A
Flicker	EN61000-3-3:2008	
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	

Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch ([JL076A](#))

Included accessories	1 Aruba 3810 Switch Fan Tray (JL088A)	
I/O ports and slots	40 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; Ports 1 - 40 support MACSec	
	8 RJ-45 HPE Smart Rate Multi-Gigabit ports; Ports 1 - 8 support MACSec	
	1 open module slot	
	Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module	
Additional ports and slots	1 stacking module slot	
	1 RJ-45 serial console port	
	1 RJ-45 out-of-band management port	
	1 dual-personality (RJ-45 or USB micro-B)	
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	
Fan tray	includes: 1 x JL088A 1 fan tray slot Switch ships with 1 JL088A fan tray installed. Spares ordered separately.	
Physical characteristics	Dimensions	17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)
	Weight	13.61 lb (6.17 kg)
Memory and processor	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card	

	Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal	
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface mounting only	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
	10 Gbps Latency	< 1.8 μ s (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 μ s (FIFO 64-byte packets)
	Throughput	up to 273.8 Mpps (64-byte packets)
	Routing/Switching capacity	480 Gbps
	Switch fabric speed	508 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 49 dB, Pressure: 31.5 dB
	Primary Airflow Direction	Front-to-side and front-to-rear
Electrical Characteristics	Frequency	50/60Hz
	Voltage	JL086A PSU: 100-127/200-240 VAC JL087A PSU: 110-127/200-240 VAC
	Current	JL086A PSU (Each): 5A/2.5A JL087A PSU (Each): 8.5A/5A
	Max/Idle Power Rating (Switch+ 1 PSU)	190W/158W
	Second PSU Power Adder	10W
	Max/Idle Uplink Power Adder	JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W
	Maximum Heat Dissipation *(Max Case)	719.51
	PoE Power (Max)	1440W

	Possible)	
	Notes	<p>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 provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product.</p> <p>*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator.</p>
Safety	EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013	
Immunity	Generic	EN55022: 2010
	EN	EN55024: 2010
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Flicker	EN61000-3-3:2008
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band; Out-of-band management (serial RS-232c or micro usb)	
Aruba 3810M 48G PoE+ 4SFP+ 680W Switch (JL428A)		
Included accessories	1 Aruba 3810M 48G PoE+ 1-slot Switch (JL074A) 1 Aruba X372 54VDC 680W Power Supply (JL086A) 1 Aruba 3810M 4SFP+ Module (JL083A) 1 Aruba 3810 Switch Fan Tray (JL088A)	
I/O ports and slots	48 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; Ports 1 - 48 support MACSec	

	1 open module slot	
	Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module	
Additional ports and slots	1 stacking module slot 1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)	
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	
Fan tray	includes: 1 x JL088A 1 fan tray slot Switch ships with 1 JL088A fan tray installed. Spares ordered separately.	
Physical characteristics	Dimensions	17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)
	Weight	13.62 lb (6.18 kg)
Memory and processor	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card	
	Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal	
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface mounting only	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
	10 Gbps Latency	< 1.8 μ s (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 μ s (FIFO 64-byte packets)
	Throughput	up to 190.5 Mpps (64-byte packets)
	Routing/Switching capacity	320 Gbps
	Switch fabric speed	338 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing

	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 47 dB, Pressure: 29.4 dB
	Primary Airflow Direction	Front-to-side and front-to-rear
Electrical Characteristics	Frequency	50/60Hz
	Voltage	JL085A PSU: 100-127/200-240 VAC
	Current	JL085A PSU (Each): 1A/0.5A
	Max/Idle Power Rating (Switch+ 1 PSU)	70W/55W
	Second PSU Power Adder	10W
	Max/Idle Uplink Power Adder	JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W
	Maximum Heat Dissipation *(Max Case)	310.31
	PoE Power (Max Possible)	N/A
	Notes	<p>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 provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product.</p> <p>*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator.</p>
Safety	EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013	
Immunity	Generic	EN55022: 2010
	EN	EN55024: 2010

	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN61000-3-2:2006 +A1:2009 +A2:2009 Class A
	Flicker	EN61000-3-3:2008
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of- band; Out-of-band management (serial RS-232c or micro usb)	

Aruba 3810M 48G PoE+ 4SFP+ 1050W Switch (JL429A)

Included accessories	1 Aruba 3810M 48G PoE+ 1-slot Switch (JL074A) 1 Aruba X372 54VDC 1050W Power Supply (JL087A) 1 Aruba 3810M 4SFP+ Module (JL083A) 1 Aruba 3810 Switch Fan Tray (JL088A)	
I/O ports and slots	48 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; Ports 1 - 48 support MACSec	
	1 open module slot	
	Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module	
Additional ports and slots	1 stacking module slot 1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)	
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	
Fan tray	includes: 1 x JL088A 1 fan tray slot Switch ships with 1 JL088A fan tray installed. Spares ordered separately.	
Physical characteristics	Dimensions	17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)
	Weight	13.62 lb (6.18 kg)
Memory and processor	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card	
	Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal	
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included);	

	Horizontal surface mounting only	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
	10 Gbps Latency	< 1.8 μ s (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 μ s (FIFO 64-byte packets)
	Throughput	up to 190.5 Mpps (64-byte packets)
	Routing/Switching capacity	320 Gbps
	Switch fabric speed	338 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 47 dB, Pressure: 29.4 dB
	Primary Airflow Direction	Front-to-side and front-to-rear
Electrical Characteristics	Frequency	50/60Hz
	Voltage	JL085A PSU: 100-127/200-240 VAC
	Current	JL085A PSU (Each): 1A/0.5A
	Max/Idle Power Rating (Switch+ 1 PSU)	70W/55W
	Second PSU Power Adder	10W
	Max/Idle Uplink Power Adder	JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W
	Maximum Heat Dissipation *(Max Case)	310.31
	PoE Power (Max Possible)	N/A
	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 provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules

		populated. This is a modular product. *Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator.
Safety	EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013	
Immunity	Generic	EN55022: 2010
	EN	EN55024: 2010
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Flicker	EN61000-3-3:2008
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of- band; Out-of-band management (serial RS-232c or micro usb)	
Aruba 3810M 24SFP+ 250W Switch (JL430A)		
Included accessories	1 Aruba 3810M 16SFP+ 2-slot Switch (JL075A) 1 Aruba X371 12VDC 250W Power Supply (JL085A) 2 Aruba 3810M 4SFP+ Module (JL083A) 1 Aruba 3810 Switch Fan Tray (JL088A)	
I/O ports and slots	16 SFP+ fixed 1000/10000 SFP+ ports; Duplex: 100BASE-TX: half or full; 1000BASE-T: full only; Ports	
	1 - 16 support MACSec	
	2 open module slots	
	Supports a maximum of 8 SFP+ ports or 2 40GbE ports, with optional module	
Additional ports and slots	1 stacking module slot 1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)	

Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	
Fan tray	includes: 1 x JL088A 1 fan tray slot Switch ships with 1 JL088A fan tray installed. Spares ordered separately.	
Physical characteristics	Dimensions	17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)
	Weight	13.28 lb (6.02 kg)
Memory and processor	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal	
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface mounting only	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
	10 Gbps Latency	< 1.8 μ s (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 μ s (FIFO 64-byte packets)
	Throughput	up to 285.7 Mpps (64-byte packets)
	Routing/Switching capacity	480 Gbps
	Switch fabric speed	508 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 39 dB, Pressure: 22.3 dB
	Primary Airflow Direction	Front-to-side and front-to-rear
Electrical Characteristics	Frequency	50/60Hz
	Voltage	JL085A PSU: 100-127/200-240 VAC
	Current	JL085A PSU (Each): 1A/0.5A
	Max/Idle Power Rating (Switch+ 1 PSU)	142W/103W
	Second PSU Power Adder	10W
	Max/Idle Uplink Power	JL078A: 4W/3W

	Adder	JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W
	Maximum Heat Dissipation *(Max Case)	310.31
	PoE Power (Max Possible)	N/A
	Notes	<p>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 provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product.</p> <p>*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator.</p>
Safety	EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013	
Immunity	Generic	EN55022: 2010
	EN	EN55024: 2010
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN61000-3-2:2006 +A1:2009 +A2:2009 Class A
Flicker	EN61000-3-3:2008	
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); 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)		
BGP	RFC 1997 BGP Communities Attribute	

	<p>RFC 2918 Route Refresh Capability</p> <p>RFC 4271 A Border Gateway Protocol 4 (BGP-4)</p> <p>RFC 4456 BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP)</p> <p>RFC 4724 Graceful Restart Mechanism for BGP</p> <p>RFC 5492 Capabilities Advertisement with BGP-4</p>
Denial of service protection	CPU DoS Protection
Device Management	<p>RFC 1591 DNS (client)</p> <p>RFC 2576 (Coexistence between SNMP V1, V2, V3)</p> <p>RFC 2579 (SMIv2 Text Conventions)</p> <p>RFC 2580 (SMIv2 Conformance)</p> <p>RFC 3416 (SNMP Protocol Operations v2)</p> <p>RFC 3417 (SNMP Transport Mappings)</p> <p>HTML and telnet management</p>
General Protocols	<p>IEEE 802.1ad Q-in-Q</p> <p>IEEE 802.1AX-2008 Link Aggregation</p> <p>IEEE 802.1D MAC Bridges</p> <p>IEEE 802.1p Priority</p> <p>IEEE 802.1Q VLANs</p> <p>IEEE 802.1s Multiple Spanning Trees</p> <p>IEEE 802.1v VLAN classification by Protocol and Port</p> <p>IEEE 802.1w Rapid Reconfiguration of Spanning Tree</p> <p>IEEE 802.3ad Link Aggregation Control Protocol (LACP)</p> <p>IEEE 802.3af Power over Ethernet</p> <p>IEEE 802.3az Energy Efficient Ethernet</p> <p>IEEE 802.3x Flow Control</p> <p>IEEE 802.3bz 2.5Gb/s and 5Gb/s interfaces</p> <p>RFC 768 UDP</p> <p>RFC 783 TFTP Protocol (revision 2)</p> <p>RFC 792 ICMP</p> <p>RFC 793 TCP</p> <p>RFC 826 ARP</p> <p>RFC 854 TELNET</p> <p>RFC 868 Time Protocol</p> <p>RFC 951 BOOTP</p> <p>RFC 1058 RIPv1</p> <p>RFC 1350 TFTP Protocol (revision 2)</p> <p>RFC 1519 CIDR</p> <p>RFC 1542 BOOTP Extensions</p> <p>RFC 1918 Address Allocation for Private Internet</p> <p>RFC 2030 Simple Network Time Protocol (SNTP) v4</p> <p>RFC 2131 DHCP</p>

	<p>RFC 2453 RIPv2</p> <p>RFC 2548 (MS-RAS-Vendor only)</p> <p>RFC 3046 DHCP Relay Agent Information Option</p> <p>RFC 3575 IANA Considerations for RADIUS</p> <p>RFC 3576 Ext to RADIUS (CoA only)</p> <p>RFC 3768 VRRP</p> <p>RFC 4675 RADIUS VLAN & Priority</p> <p>RFC 5798 VRRP (exclude Accept Mode and sub-sec timer)</p> <p>RFC 5880 Bidirectional Forwarding Detection</p> <p>RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification</p> <p>UDLD (Uni-directional Link Detection)</p>
IP Multicast	<p>RFC 3376 IGMPv3</p> <p>RFC 3973 PIM Dense Mode</p> <p>RFC 4601 PIM Sparse Mode</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 2375 IPv6 Multicast Address Assignments</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 3019 MLDv1 MIB</p> <p>RFC 3315 DHCPv6 (client only)</p> <p>RFC 3484 Default Address Selection for IPv6</p> <p>RFC 3587 IPv6 Global Unicast Address Format</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 4087 IP Tunnel MIB</p> <p>RFC 4113 MIB for UDP</p> <p>RFC 4213 Basic Transition Mechanisms for IPv6 Hosts and Routers</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 4294 IPv6 Node Requirements</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 5340 OSPFv3 for IPv6</p> <p>RFC 5453 Reserved IPv6 Interface Identifiers</p> <p>RFC 5519 Multicast Group Membership Discovery MIB (MLDv2 only)</p> <p>RFC 5722 Handling of Overlapping IPv6 Fragments</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</p> <p>RFC 1213 MIB II</p> <p>RFC 1493 Bridge MIB</p> <p>RFC 1724 RIPv2 MIB</p> <p>RFC 1850 OSPFv2 MIB</p> <p>RFC 2021 RMONv2 MIB</p> <p>RFC 2096 IP Forwarding Table MIB</p> <p>RFC 2578 Structure of Management Information Version 2 (SMIv2)</p> <p>RFC 2613 SMON MIB</p> <p>RFC 2618 RADIUS Client MIB</p> <p>RFC 2620 RADIUS Accounting MIB</p> <p>RFC 2665 Ethernet-Like-MIB</p> <p>RFC 2668 802.3 MAU MIB</p> <p>RFC 2674 802.1p and IEEE 802.1Q Bridge MIB</p> <p>RFC 2737 Entity MIB (Version 2)</p> <p>RFC 2787 VRRP MIB</p> <p>RFC 2863 The Interfaces Group MIB</p> <p>RFC 2925 Ping MIB</p> <p>RFC 2932 IP (Multicast Routing MIB)</p> <p>RFC 2933 IGMP MIB</p> <p>RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU)</p> <p>RFC 7331 BFD MIB</p>
Network Management	<p>IEEE 802.1AB Link Layer Discovery Protocol (LLDP)</p> <p>RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)</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 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>
OSPF	<p>RFC 2328 OSPFv2</p> <p>RFC 3101 OSPF NSSA</p> <p>RFC 3623 Graceful OSPF Restart (Unplanned Outages only)</p> <p>RFC 5340 OSPFv3 for IPv6</p>
QoS/CoS	<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>
Security	<p>IEEE 802.1X Port Based Network Access Control</p> <p>RFC 1321 The MD5 Message-Digest Algorithm</p> <p>RFC 2698 A Two Rate Three Color Marker</p> <p>RFC 2818 HTTP Over TLS</p> <p>RFC 2865 RADIUS (client only)</p> <p>RFC 2866 RADIUS Accounting</p> <p>RFC 3579 RADIUS Support For Extensible Authentication Protocol (EAP)</p> <p>Secure Sockets Layer (SSL)</p> <p>SSHv2 Secure Shell</p>

ACCESSORIES

The table shows the Aruba 3810 Switch Series accessories.

Modules	
Aruba 3810M 4-port Stacking Module	JL084A
Aruba 3810M/2930M 4-port 100M/1G/10G SFP+ MACsec Module	JL083A
Aruba 3810M/2930M 1-port QSFP+ 40GbE Module	JL078A
Aruba 3810M 2QSFP+ 40GbE Module	JL079A
Transceivers	
Aruba 100M SFP LC FX 2km MMF Transceiver	J9054D
Aruba 1G SFP RJ45 T 100m Cat5e Transceiver	J8177D
Aruba 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
Aruba 1G SFP LC LX 10km SMF Transceiver	J4859D

Aruba 1G SFP LC LH 70km SMF Transceiver	J4860D
Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
Aruba 10G SFP+ LC LR 10km SMF Transceiver	J9151D
Aruba 10G SFP+ LC LRM 220m OM2 MMF Transceiver	J9152D
Aruba 10G SFP+ LC ER 40km SMF Transceiver	J9153D
Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D
Aruba 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285D
Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver	JL308A
HPE X142 40G QSFP+ MPO SR4 Transceiver	JH231A
HPE X142 40G QSFP+ LC LR4 SM Transceiver	JH232A
HPE X142 40G QSFP+ MPO eSR4 300M Transceiver	JH233A
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	
Aruba X2C2 RJ45 to DB9 Console Cable	JL448A
Aruba 3800/3810M 0.5m Stacking Cable	J9578A
Aruba 3800/3810M 1m Stacking Cable	J9665A
Aruba 3800/3810M 3m Stacking Cable	J9579A
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
Power Supply	
Aruba X371 12VDC 250W 100-240VAC Power Supply	JL085A
Aruba X372 54VDC 680W 100-240VAC Power Supply	JL086A
Aruba X372 54VDC 1050W 110-240VAC Power Supply	JL087A
Fan Tray	
Aruba 3810 Switch Fan Tray	JL088A
Mounting Kit	
HPE X410 1U Universal 4-post Rackmount Kit	J9583A

ORDERING INFORMATION

Order the Aruba 3810 switches here:

Model	Description
JL071A	Aruba 3810M 24G 1-slot Switch
JL072A	Aruba 3810M 48G 1-slot Switch
JL073A	Aruba 3810M 24G PoE+ 1-slot Switch

JL074A	Aruba 3810M 48G PoE+ 1-slot Switch
JL075A	Aruba 3810M 16SFP+ 2-slot Switch
JL076A	Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch
JL428A	Aruba 3810M 48G PoE+ 4SFP+ 680W Switch
JL429A	Aruba 3810M 48G PoE+ 4SFP+ 1050W Switch
JL430A	Aruba 3810M 24SFP+ 250W Switch

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