J9780A Datasheet

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Overview

Aruba 2530 Series Fast Ethernet devices are fully managed Layer 2 edge switches delivering cost effective, reliable, and secure connectivity for business networks. This model has 8 x 10/100 PoE+ ports with a power budget of 67W. An external power adapter is used. Additionally the switch has two 10/100/1000 ports dual personality together with two Gigabit SFP ports. Designed for entry level to midsize enterprise networks, these switches deliver full Layer 2 capabilities with enhanced access security, traffic prioritization, and IPv6 host support.

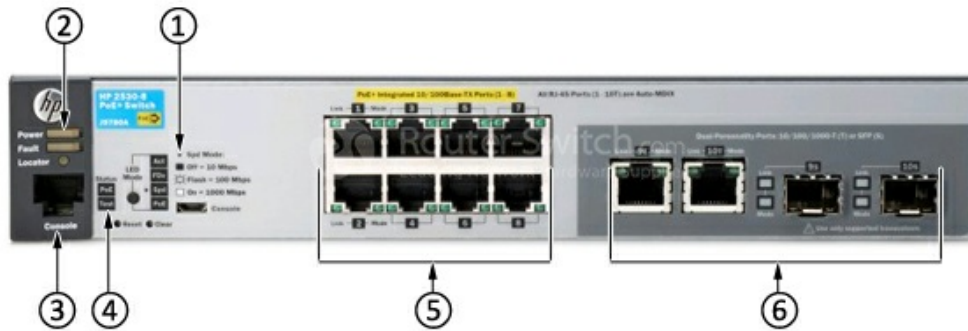### Quick Spec

Figure 1 shows the appearance of Aruba J9780A.

Table 1 shows the quick spec.

Product Code	J9780A
Type	Aruba 2530-8-PoE+ Switch
Ports	· 8 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full · 2 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) or as a SFP slot (for use with SFP transceivers) ports. · 1 dual-personality (RJ-45 or USB micro-B) serial console port.
PoE power	67 W
Throughput	Up to 4.1 Mp/s (64-byte packets)
Switching capacity	5.6 Gb/s
Dimensions (W x D x H)	25.4 x 15.95 x 4.45 cm (10 x 6.28 x 1.75 in) (1U height)
Weight	2.0 lb (0.91 kg)

Product Details

Figure 2 shows the front panel of Aruba J9780A.

Note:

(1)	LED Mode select button and indicator LEDs
(2)	Power, Fault, and Locator LEDs
(3)	Console Port
(4)	8 × RJ-45 autosensing 10/100 PoE+ ports
(5)	Dual-personality ports (10/100/1000BASE-T or SFP)

Figure 3 shows the back panel of Aruba J9780A.

Note:

(1)	DC power connector

Compare to Similar Items

Table 2 shows the comparison.

Product Code	J9779A	J9780A	J9781A	J9782A
Type	Aruba 2530-24-PoE+ Switch	Aruba 2530-8-PoE+ Switch	Aruba 2530-48 Switch	Aruba 2530-24 Switch
PoE power	195W	67 W	N/A	N/A
Throughput	Up to 9.5 Mp/s (64-byte packets)	Up to 4.1 Mp/s (64-byte packets)	up to 13 million pps (64-byte packets)	up to 9.5 million pps (64-byte packets)

Switching capacity	12.8 Gb/s	5.6 Gb/s	17.6 Gb/s	12.8 Gb/s

Specification

J9780A Specifications	
Type	Aruba 2530-8-PoE+ Switch
System specifications	
Ports	· 8 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full · 2 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) or as a SFP slot (for use with SFP transceivers) ports. · 1 dual-personality (RJ-45 or USB micro-B) serial console port.
Memory and processor	Processor ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated.
Mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting.
Management	IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB);IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB.
Performance (IPv6 Ready Certified)	
1000 Mb latency	< 2.3µs (LIFO 64-byte packets)
100 Mb Latency	< 1.3 µs (LIFO 64-byte packets)
Throughput	Up to 4.1 Mp/s (64-byte packets)
Switching capacity	5.6 Gb/s
MAC address table size	16000 entries
Physical specifications	
Dimensions (W x D x H)	25.4 x 15.95 x 4.45 cm (10 x 6.28 x 1.75 in) (1U height)
Weight	2.0 lb (0.91 kg)
Electrical specifications	
Maximum heat dissipation	29 BTU/hr (30.6 kJ/hr), (switch only: 29 BTU/hr; combined switch + max. PoE devices: 262 TU/hr).
Voltage	100 - 127 / 200 - 240 V ac
Current	1.4 A
Idle power	5.8 W

Maximum power rating	76.7 W
PoE power	67 W
Frequency	50/60 Hz

NOTE: 1: Idle power is the actual power consumption of the device with no ports connected.
2: 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. PoE power is the total power budget available to all PoE ports.

Environmental specifications	
Operating temperature	0° to 45°C (32° to 113°F)
Operating relative humidity	15% to 95% @ 40°C (104°F), noncondensing
Non-operating/storage temperature	-40° to 70°C (-40° to 158°F)
Non-operating/storage relative humidity	15% to 90% @65°C (149°F), noncondensing
Altitude	Up to 3 km (10,000 ft)
Acoustic	Power: 0 dB, Pressure: 0 dB

Safety agency certifications	
Safety	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1

NOTE: IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.