

JL256A Datasheet

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Overview

Aruba 2930F Switch Series is designed for customer creating digital workplaces optimized for mobile users with an integrated wired and wireless approach. These basic Layer 3 access switches are easy to deploy and manage with advanced security and network management tools like Aruba ClearPass Policy Manager and Aruba AirWave and are ideal for enterprise edge, SMB and branch offices. A powerful Aruba ProVision ASIC delivers performance and value supporting the latest SDN applications with future proof programmability. The 2930F supports 10GbE uplinks, PoE+, robust QoS, RIP routing, Access OSPF, ACLs, Tunneled Node and IPv6. This JL256A has 48x 10/100/1000 PoE+ ports and 4x 1000/10G SFP+ transceiver slots for high speed connectivity. PoE+ is supported with a power budget of 370 Watts.

Quick Spec

Figure 1 shows the appearance of HPE Aruba JL256A.



Table 1 shows the quick spec.

Product Code	JL256A
Type	Aruba 2930F 48G PoE+ 4SFP+ Switch
I/O ports and slots	<ul style="list-style-type: none">· 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· 4 SFP+ 1/10GbE ports; PHY-less
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port
Throughput	up to 112.0 Mp/s
Switching capacity	176 Gb/s
PoE Available Power	370 W
Dimensions	4.39 x 44.25 x 30.42 cm (1.73 x 17.42 x 11.98 in) 1U height

Product Details

Figure 2 shows the front panel of HPE Aruba JL256A.



Note:

(1)	4 x SFP+ 1/10GbE ports
(2)	48 x RJ-45 autosensing 10/100/1000 PoE+ ports
(3)	RJ Serial Console port

Figure 3 shows the back panel of HPE Aruba JL256A.



Note:

(1)	Cable tie eyelet
(2)	Ground point
(3)	AC power connector

Compare to Similar Items

Table 2 shows the comparison.

Product Code	JL253A	JL254A	JL255A	JL256A
Type	Aruba 2930F 24G 4SFP+ Switch	Aruba 2930F 48G 4SFP+ Switch	Aruba 2930F 24G PoE+ 4SFP+ Switch	Aruba 2930F 48G PoE+ 4SFP+ Switch

I/O ports and slots	<ul style="list-style-type: none"> · 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 · 4 SFP+ 1/10GbE ports; PHY-less 	<ul style="list-style-type: none"> · 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 · 4 SFP+ 1/10GbE ports; PHY-less 	<ul style="list-style-type: none"> · 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 · 4 SFP+ 1/10GbE ports; PHY-less 	<ul style="list-style-type: none"> · 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 · 4 SFP+ 1/10GbE ports; PHY-less
Throughput	up to 95.2 Mp/s	up to 112.0 Mp/s	up to 95.2 Mp/s	up to 112.0 Mp/s
Switching capacity	128 Gb/s	176 Gb/s	128 Gb/s	176 Gb/s

Specification

JL256A Specifications	
Type	Aruba 2930F 48G PoE+ 4SFP+ Switch
System specifications	
I/O ports and slots	<ul style="list-style-type: none"> · 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 · 4 SFP+ 1/10GbE ports; PHY-less
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port
Memory and processor	Dual Core ARM Coretex @ 1016 MHz, 1 GB DDR3 SDRAM Packet buffer size: 12.38 MB 4.5MB Ingress/7.875MB Egress, 4 GB eMMC
Management	Aruba AirWave Network Management; IMC - Intelligent Management Center Command-line interface Web browser Configuration menu SNMP manager Telnet RMON1 FTP Out-of-band management (serial RS-232C or micro USB)
Performance specifications	
1000 Mb Latency	< 3.8 μ s (64-byte packets)
10 Gbps Latency	< 1.6 μ s (64-byte packets)
Throughput	up to 112.0 Mp/s
Switching capacity	176 Gb/s
Routing table size	10000 entries (IPv4), 5000 entries (IPv6)

MAC address table size	32768 entries
Physical specifications	
Dimensions	4.39 x 44.25 x 30.42 cm (1.73 x 17.42 x 11.98 in) 1U height
Electrical specifications	
80plus.org Certification	Silver
Description	N/A
Maximum heat dissipation	1652.13 kJ/hr (1566 BTU/hr)
Voltage	100 - 127 / 200 - 240 V ac, rated
Current	5.1/2.5 A
Maximum power rating	459 W
Idle power	48.6 W
Frequency	50/60 Hz
PoE power	370 W PoE+
Environmental specifications	
Operating temperature	0°C to 45°C (32°F to 113°F) up to 5000 Feet - 0C to 40C (32F to 104F) up to 10000 Feet
Operating relative humidity	15% to 95% @ 40°C (104°F) noncondensing
Nonoperating/Storage temperature	-40°C to 70°C (-40°F to 158°F) up to 15000 Feet
Nonoperating/Storage temperature	15% to 95% @65°C (149°F) noncondensing
Acoustic	Power: 55.7 dB, Pressure: 41.7 dB
Airflow direction	Side-to-side
Safety certifications	
Safety	UL 60950-1, 2nd Edition EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013 IEC 60950-1:2005 +A1:2009 +A2:2013 CSA 22.2 No. 60950-1-07 2nd EN 60825-1:2007 / IEC 60825-1:2007 Class 1
Emissions	EN 55022:2010/CISPR 22 Class A FCC CFR 47 Part 15 Class A VCCI Class A; ICES-003 Class A CNS 13438
Immunity	Generic:EN 55024:2010/CISPR 24 ESDIEC 61000-4-2 RadiatedIEC 61000-4-3 EFT/BurstIEC 61000-4-4 SurgeIEC 61000-4-5 ConductedIEC 61000-4-6 Power frequency magnetic fieldIEC 61000-4-8 Voltage dips and interruptionsIEC 61000-4-11 HarmonicsIEC/EN 61000-3-2 FlickerIEC/EN 61000-3-3