

# JL253A 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 JL253A has 24x 10/100/1000 access ports and 4x 1000/10G SFP+ transceiver slots for uplink connectivity.

## Quick Spec

Table 1 shows the quick spec.

<b>Product Code</b>	JL253A
<b>Type</b>	Aruba 2930F 24G 4SFP+ Switch
<b>I/O ports and slots</b>	<ul style="list-style-type: none"><li>· 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)</li><li>Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only</li><li>· 4 SFP+ 1/10GbE ports; PHY-less</li></ul>
<b>Additional ports and slots</b>	1 dual-personality (RJ-45 or USB micro-B) serial console port
<b>Throughput</b>	up to 95.2 Mp/s
<b>Switching capacity</b>	128 Gb/s
<b>Dimensions</b>	4.39 x 44.25 x 20.02 cm ( 1.73 x 17.42 x 7.88 in) 1U height

## Product Details

Figure 1 shows the front panel of HPE Aruba JL253A.



Note:

(1)	4 x SFP+ 1/10GbE ports
(2)	24 x RJ-45 autosensing 10/100/1000 ports
(3)	RJ Serial Console port

Figure 2 shows the back panel of HPE Aruba JL253A.



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"> <li>· 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</li> <li>· 4 SFP+ 1/10GbE ports; PHY-less</li> </ul>	<ul style="list-style-type: none"> <li>· 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</li> <li>· 4 SFP+ 1/10GbE ports; PHY-less</li> </ul>	<ul style="list-style-type: none"> <li>· 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</li> <li>· 4 SFP+ 1/10GbE ports; PHY-less</li> </ul>	<ul style="list-style-type: none"> <li>· 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</li> <li>· 4 SFP+ 1/10GbE ports; PHY-less</li> </ul>
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

JL253A Specifications	
Type	Aruba 2930F 24G 4SFP+ Switch
<b>System specifications</b>	

I/O ports and slots	<ul style="list-style-type: none"> <li>· 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</li> <li>· 4 SFP+ 1/10GbE ports; PHY-less</li> </ul>
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port
Memory and processor	Dual Core ARM Cortex A9 @ 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)
<b>Performance specifications</b>	
Features	Aruba 2930F 24G 4SFP+ Switch (JL253A)
1000 Mb Latency	< 3.8 $\mu$ s (64-byte packets)
10 Gbps Latency	< 1.6 $\mu$ s (64-byte packets)
Throughput	up to 95.2 Mp/s
Switching capacity	128 Gb/s
Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
MAC address table size	32768 entries
<b>Physical specifications</b>	
Dimensions	4.39 x 44.25 x 20.02 cm ( 1.73 x 17.42 x 7.88 in) 1U height
<b>Electrical specifications</b>	
80plus.org Certification	N/A
Description	N/A
Maximum heat dissipation	105.5 kJ/hr(100 BTU/hr)
Voltage	100 - 127 / 200 - 240 V ac, rated
Current	0.6/0.4 A
Maximum power rating	29.3 W
Idle power	19.5 W
Frequency	50/60 Hz
PoE power	N/A
<b>Environmental specifications</b>	
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: 49.7 dB, Pressure: 37.1 dB
Airflow direction	Side-to-side
<b>Safety certifications</b>	
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