

## JL681A Datasheet

El conmutador Aruba Instant On de la serie 1930 ha sido diseñado para pequeñas empresas en crecimiento que requieren un rendimiento mejorado para admitir aplicaciones exigentes que requieren un ancho de banda elevado. El conmutador Aruba Instant On de la serie 1930 se integra a la perfección con los puntos de acceso de interior o exterior Instant On existentes y puede gestionarse de manera central mediante la aplicación móvil Instant On de forma local o remota. Estos conmutadores Ethernet de nivel 2+ gestionados en la nube cuentan con modelos Ethernet Gigabit de 8, 24 y 48 puertos con o sin PoE de clase 4 (por ejemplo, PoE+), con ranuras 1G SFP en el modelo de 8 puertos y con ranuras 1G/10G SFP+ en los modelos 24/48G para la conectividad de fibra.

### Especificaciones

Modelo	Aruba Instant On 1930 8G Class4 PoE 2SFP 124W Switch (JL681A)
I/O ports and slots	8 RJ-45 autosensing 10/100/1000 Class 4 PoE 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 2 SFP 1GbE ports
<b>Physical Characteristics</b>	
Dimensions	10(w) x 10(d) x 1.73(h) in (25.4 x 25.4 x 4.39 cm) (1U height)
Weight	7.21 lb (1.16 kg)
<b>Processor and memory</b>	
	ARM Cortex-A9 @ 800 MHz, 512 MB SDRAM, 256 MB flash; packet buffer: 1.5 MB
<b>Performance</b>	
100 Mb Latency	< 5.2 uSec
packet size	64B
1000 Mb Latency	<3.0 uSec
packet size	64B
10000 Mb Latency	n/a
packet size	n/a
Throughput (Mpps)	14.88 Mpps
packet size	64B
switching capacity	20 Gbps

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<b>Performance</b>	
Routing Table size (# of static entries)	32 static entries
MAC Address table size (# of entries)	8,000 entries
Reliability MTBF (years)	95
<b>Environment</b>	
Operating temperature	32°F to 104°F (0°C to 40°C)
Operating relative humidity	15% to 95% @ 104°F (40°C)
Nonoperating/Storage temperature	40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	15% to 95% @ 140°F (60°C)
Altitude	up to 10,000 ft (3 km)
Acoustic	Power: 0 dB no fan
<b>Electrical Characteristics</b>	
Frequency	50/60 Hz
AC voltage	100 - 127 / 200 - 240 VAC
Current	0.8/1.6 A
Maximum power rating	150.2 W
Idle power	11.7 W
PoE power	124 W Class 4 PoE
Power Supply	Internal power supply
<b>Safety</b>	
	UL 60950-1; IEC 60950-1; EN 60950-1; CAN/ CSA-C22.2 No. 60950-1; EN 60825-1 UL 62368-1 Ed. 2; IEC 62368-1 Ed. 2; EN 62368-1:2014

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<b>Emissions</b>	
	VCCI-CISPR 32, Class A; CNS 13438; ICES-003 Issue 6 Class A; FCC CFR 47 Part 15, Class A; EN 55032: 2015 +AC:2016 / CISPR-32, Class A
<b>Immunity</b>	
Generic	CISPR 24 / CISPR 35
EN	EN 55024:2010 / EN 55035:2017
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	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3
<b>Device Management</b>	
	Aruba Instant On Portal; Web browser; SNMP Manager
<b>Accessories</b>	
	Aruba 1G SFP LC SX 500m MMF XCVR (J4858D)
	Aruba 1G SFP LC LX 10km SMF XCVR (J4859D)
	Aruba 1G SFP RJ45 T 100m Cat5e XCVR (J8177D)

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## STANDARDS AND PROTOCOLS

### (APPLIES TO ALL PRODUCTS IN SERIES)

#### General protocols

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-X
- IEEE 802.2af PoE (PoE models only)
- IEEE 802.3at PoE (PoE models only)
- IEEE 802.3x Flow control
- IEEE 802.1Q VLANS
- IEEE 802.1p Priority
- RFC 768, RFC 783, RFC 791, RFC 792, RFC 793, RFC 813, RFC 826, RFC 879, RFC 896, RFC 894, RFC 896, RFC 919, RFC 920, RFC 922, RFC 950, RFC 1027, RFC 1042, RFC 1071, RFC 1123, RFC 1141, RFC 1155, RFC 1157, RFC 1213, RFC 1215, RFC 1286, RFC 1350, RFC 1442, RFC 1451, RFC 1493, RFC 1541, RFC 1573, RFC 1624, RFC 1643, RFC 1700, RFC 1757, RFC 1867, RFC 1907, RFC 2011, RFC 2012, RFC 2013, RFC 2030, RFC 2131, RFC 2233, RFC 2236, RFC 2462, RFC 2463, RFC 2464, RFC 2576, RFC 2579, RFC 2580, RFC 2616, RFC 2618, RFC 2665, RFC 2666, RFC 2674, RFC 2710, RFC 2737, RFC 2819, RFC 2863, RFC 3019, RFC 3164, RFC 3176, RFC 3376, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415, RFC 3416, RFC 4330, RFC 4443, RFC 4862, RFC 5424, RFC 5519, RFC 5722
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.1X Port Access Authentication
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1W Rapid Spanning Tree Protocol
- IEEE 802.1S Multiple Spanning Tree Protocol
- IEEE 802.1AB Link Layer Discovery Protocol

## ORDERING INFORMATION

### Aruba Instant On 1930 Switch Series

Part Number	Description	Gig Ports	Uplink Ports	Class 4 PoE
JL680A	Aruba Instant On 1930 8G 2SFP Switch	8	2 SFP	-
JL681A	Aruba Instant On 1930 8G Class4 PoE 2SFP 124W Switch	8	2 SFP	124W
JL682A	Aruba Instant On 1930 24G 4SFP/SFP+ Switch	24	4 SFP/SFP+	-
JL683A	Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 195W Switch	24	4 SFP/SFP+	195W
JL684A	Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 370W Switch	24	4 SFP/SFP+	370W
JL685A	Aruba Instant On 1930 48G 4SFP/SFP+ Switch	48	4 SFP/SFP+	-
JL686A	Aruba Instant On 1930 48G Class4 PoE 4SFP/SFP+ 370W Switch	48	4 SFP/SFP+	370W