

HPE Aruba Networking

# Aruba / J4859D

Single Mode 1G SFP LC LX 10KM SMF XCVR ( Original )

SKU: J4859D · IEEE 802.3z 1000BASE-LX · SFP MSA SFF-8472 · DOM Support

# 1G

SFP | 10 KM | 1310 nm

✓ ORIGINAL

GENUINE HPE ARUBA

## PRODUCT OVERVIEW

The **Aruba / J4859D / Single Mode 1G SFP LC LX 10KM SMF XCVR ( Original )** is a genuine, factory-certified HPE Aruba optical transceiver designed for enterprise Gigabit Ethernet deployments requiring long-distance, high-reliability fibre connectivity. As an original HPE Aruba component, it carries full firmware recognition by Aruba and HPE ProCurve switches, preserving the host device's warranty and eliminating compatibility warnings at every boot. Operating at a 1310 nm wavelength, it delivers 1.25 Gbps throughput over 9/125 µm single-mode fibre at distances up to 10 km — ideal for inter-building campus links, data centre uplinks, and backbone infrastructure. Furthermore, the hot-pluggable SFP form factor supports live insertion and removal without disrupting network operations. Digital Optical Monitoring (DOM/DDM) via SFF-8472 provides real-time visibility into Tx/Rx optical power, bias current, temperature, and voltage. Additionally, with a maximum power draw of only 1.0 W and CE, RoHS, and FCC certifications, this transceiver meets the highest standards for environmental safety and energy efficiency.

## KEY FEATURES

### ★ Original / Genuine HPE Aruba Module

Factory-encoded EEPROM guarantees full switch recognition, zero compatibility alerts, and preserved HPE warranty on all supported platforms.

### ■ 10 km SMF Reach — 1310 nm

Achieves reliable 1000BASE-LX/LH Gigabit Ethernet over 9/125 µm SMF with a guaranteed minimum optical budget of 15 dB.

### ■ Hot-Pluggable Duplex LC SFP

Supports live insertion and removal without powering down the switch — minimising downtime during upgrades or replacements.

### ■ DOM / DDM Real-Time Diagnostics

SFF-8472-compliant monitoring of Tx/Rx power, laser bias current, supply voltage, and temperature directly from the switch CLI or GUI.

### ✓ Low Power — CE / RoHS / FCC Certified

Maximum 1.0 W consumption with full international environmental and safety certification for clean, eco-compliant deployment.

## TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION / DETAIL
<b>OPTICAL</b>	
Transceiver Type	SFP (Small Form-factor Pluggable) — Hot-pluggable
Data Rate	1.25 Gbps — 1000BASE-LX / 1G Ethernet
Wavelength	1310 nm (nominal)
Fiber Type	Single-Mode Fiber (SMF) — 9/125 µm

PARAMETER	SPECIFICATION / DETAIL
Max. Distance (SMF)	10 km (6.21 miles)
Max. Distance (MMF)	550 m — 50/125 $\mu$ m or 62.5/125 $\mu$ m (with mode-conditioning cable)
Connector	Duplex LC (UPC polish)
Optical Budget	$\geq$ 15 dB (guaranteed minimum)
Transmitter	FP Laser (Fabry-Perot), 1310 nm
Receiver	PIN Photodiode
<b>ELECTRICAL &amp; STANDARDS</b>	
Interface Standard	IEEE 802.3z 1000BASE-LX/LH   SFP MSA (SFF-8472)
Supply Voltage	3.3 V DC
Max. Power Consumption	$\leq$ 1.0 W
Digital Diagnostics (DOM)	Yes — Tx/Rx Power, Bias Current, Voltage, Temperature
<b>ENVIRONMENTAL &amp; PHYSICAL</b>	
Operating Temperature	0 °C to 70 °C (32 °F to 158 °F)
Storage Temperature	-40 °C to 85 °C
Dimensions (W x D x H)	1.5 x 5.6 x 1.3 cm (0.6 x 2.2 x 0.5 in)
Certifications	CE, RoHS, FCC
<b>COMPATIBILITY &amp; ORDERING</b>	
Compatible Platforms	Aruba 2530 / 2920 / 2930F / 2930M / 3810M / 5400R — HPE ProCurve switches
Part Number	J4859D
Product Line	HPE Aruba Networking Transceivers
Origin	Original / Genuine HPE Aruba — Factory Certified
Manufacturer Page	<a href="https://buy.hpe.com">https://buy.hpe.com</a> — HPE Aruba 1G SFP LX 10km SMF Transceiver (J4859D)

## WHY CHOOSE THE ORIGINAL?

✓ Full Switch Recognition	Original modules are encoded with HPE Aruba's proprietary EEPROM signature — no unsupported-transceiver warnings, no forced overrides, no CLI workarounds needed.
✓ Warranty Preservation	Using a genuine HPE Aruba transceiver keeps the host switch under its full HPE warranty and support entitlement — a critical requirement for enterprise environments.
✓ Proven Quality & Lifespan	Factory-tested to HPE's own optical and electrical tolerances, ensuring consistent DOM readings, stable laser output, and a full enterprise-grade service life.
✓ Guaranteed Interoperability	Tested and validated on every supported Aruba platform. Zero risk of firmware incompatibility after IOS/ArubaOS upgrades.

## APPLICATIONS

<b>Enterprise Campus</b>	Inter-building Gigabit links across campus environments on SMF.
<b>Data Centre Interconnects</b>	Rack-to-aggregation or core switch SMF uplinks.
<b>ISP / Service Provider</b>	Access and aggregation fibre backbone segments.
<b>LAN &amp; SAN Backbones</b>	High-reliability storage area and LAN backbone runs.

## SEO & PRODUCT INFORMATION

<b>Focus Keyphrase</b>	Aruba J4859D SFP 1G LX 10KM Single Mode
<b>SEO Title</b>	Aruba J4859D 1G SFP LC LX 10KM SMF XCVR ( Original )
<b>Meta Description</b>	Original Aruba J4859D — 1G SFP LC LX, 10 km SMF, 1310 nm, DOM/DDM, hot-pluggable. Genuine HPE module for Aruba 2530, 2930F, 3810M switches.
<b>Short Description</b>	Genuine Aruba J4859D 1G SFP LC LX transceiver — 10 km SMF, 1310 nm, DOM support, hot-pluggable. Original HPE module for Aruba & HPE switches.
<b>Tags</b>	Aruba · SFP Transceiver · 1000BASE-LX · Single Mode Fiber · Original HPE Aruba Module
<b>Category</b>	Switches > GBIC
<b>Manufacturer URL</b>	<a href="https://buy.hpe.com/us/en/options/transceiver-options/networking-transceiver-options/hpe-aruba-networking-1g-sfp-lc-lx-10km-smf-transceiver/p/j4859d">https://buy.hpe.com/us/en/options/transceiver-options/networking-transceiver-options/hpe-aruba-networking-1g-sfp-lc-lx-10km-smf-transceiver/p/j4859d</a>