DATA SHEET

ARUBA FIBER MEDIA CONVERTER

AP accessory to convert fiber-optical cabling to Ethernet and supply POE

In the hospitality industry and in multi-dwelling buildings, connecting access points to existing fiber optical cabling represents a challenge, requiring an additional device. To simplify wireless deployments, Aruba offers a Fiber Media Converter that fits snuggly alongside Aruba 300H and 500H Series Hospitality APs. It can transparently convert fiber to copper Ethernet, convert DC power to POE, and extend the reach of the AP.

WHAT IS A MEDIA CONVERTER?

A media converter is a device equipped with a copper interface on one side and a fiber interface on the other side. From the network point of view, the extended connection is just another Ethernet link, but it has a very long reach so there is no need to add new switches or power extensions to extend the network scope.

SIMPLIFIED DEPLOYMENTS

The Aruba Fiber Media Converters simplifies deployments in several ways. Older buildings may not be able to support the conduit for Ethernet cables and the Aruba Fiber Media Converter can be used in this scenario to convert existing fiber-optic cable to Ethernet. In spaces with noisy electromagnetic fields or radio frequencies such as factory environments, the media converter can be used alongside existing fiber-optic cables to provide interference-free connections. Lastly, the Aruba Fiber Media Converter extends the reach of Ethernet cabling, which is limited to 100m, to minimize the need for new cabling.

THE ARUBA ADVANTAGE

The Aruba Fiber Media Converter supports a wide range of fiber small form-factor pluggable (SFP) modules and connects to the AP over standard copper Gigabit Ethernet. POE power is provided to the AP over the same interface. To power the converter and attached AP, the unit can use direct DC power or POE.

Figure 1. Fiber Media Converter shown as a module behind an AP-505H (left) and standalone (right)

KEY FEATURES

- Provides fiber backhaul option, ideal for fiber-ready hotels
- Small form-factor fits conveniently behind Aruba Wi-Fi 5 and Wi-Fi 6 hospitality access points
- Flexible DC and POE power options
- Simple installation, no licenses required

To minimize its footprint, the AP media converter seamlessly fits behind the Aruba AP-303H, AP-503H and AP-505H Hospitality Access Points using the included Ethernet jumper cable or can be deployed standalone with any compatible access point using a longer standard Ethernet cable.

TECHNICAL SPECIFICATIONS

Interfaces

- SFP port, 1Gbps, NBase-X (SFP module is not included). Explicitly validated SFP modules:
  - HPE J4859D (1Gbps LX SM/MM)
  - HPE J4858D (1Gbps SX MM)
- AP Ethernet interface: RJ45, 1000Base-T Gigabit Ethernet, 802.3bt class 5 45W POE out (PSE)
- Two DC power interfaces:
  - Circular plug interface (accepts 1.35mm/3.5mm center-positive circular plug with 9.5mm length), compatible with Aruba AP-AC2-48C AC-to-DC power adapter (not included)
  - Screw block interface, accepting 16 AWG wire gauge and up
  - Voltage range: 38V to 57V
- **POE power interface:** RJ45, 802.3bt class 6 POE in (PD), up to 51W
- **Status LED:** amber/green

Maximum power consumption

Worst-case, providing full 45W (class 5) POE to attached AP:

- DC powered: 2W (converter only), 3W (converter + SFP module), 50W (total)
- POE powered: 2W (converter only), 3W (converter + SFP module), 51W (total)

Mounting

Using the mount bracket supplied with the converter, it can be attached either to a single gang wall-box or directly to a wall.

MECHANICAL SPECIFICATIONS

Dimensions/weight (converter only):

- 86mm (W) x 150mm (H) x 40mm (D), 240g

Dimensions/weight (converter with mount bracket and cable):

- 86mm (W) x 150mm (H) x 40mm (D), 345g

Dimensions/weight (converter with mount bracket, cable and cover):

- 86mm (W) x 150mm (H) x 53mm (D), 390g

Dimensions/weight (everything as it ships in box):

- 112mm (W) x 178mm (H) x 68mm (D), 460g

ENVIRONMENTAL SPECIFICATIONS

Operating conditions:

- Temperature: 0C to +40C / +32F to +104F
- Humidity: 5% to 95% (RH), non-condensing
- ETS 300 019 class 3.1 environments

Storage conditions:

- Temperature: -25C to +55C / -13F to +131F
- Humidity: 10% to 100% (RH)
- ETS 300 019 classes 1.2 environments

Transportation conditions:

- Temperature: -40C to +70C / -40F to +158F
- Humidity: up to 95% (RH)
- ETS 300 019 classes 2.3 environments

Regulatory model number (RMN)

APINMCSFP

Regulatory compliance

- FCC/ISED
- CE Marked
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- UL/IEC/EN 60950
- IEC/EN 62368-1

For more and country-specific regulatory information and approvals, please see your Aruba representative.

Current regulatory status can be verified on the Aruba product compliance website.

Reliability (MTBF)

1.75M hours (at +25C)

PRODUCT WARRANTY

One year; see the Aruba warranty summary, wireless LAN accessories product category.

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* Note that the PSE output will always present itself as class 5 even if the input power source of the converter is unable to sustain the maximum 45W budget associated with class 5.

ORDERING INFORMATION

SKU	Description
R8F89A	Aruba AP-MC-SFP Media Converter Module for WLAN Access Points (SFP with DC to Copper with POE)

a Hewlett Packard
Enterprise company

DS_ArubaFiberMediaConverter_RVK_110321   a00119144enw

Contact us at www.arubanetworks.com/contact