Fiber AE

DATASHEET

Fiber-to-Ethernet Converter

Active Fiber Delivered to Customer's Premises

Gigabit Data to Devices over Long Distances

Powered by 802.3af PoE or 24V Passive PoE

Fiber Connectivity for Any PoE Device

Model: UF-AE

The UFiber Active Ethernet is a 1 Gbps fiber-to-copper media converter; it allows ISPs to deliver active fiber to a customer's premises and connect it to affordable SOHO network equipment lacking SFP ports. Its compact design allows the UF-AE to be discreetly integrated into any environment.

Fiber Optic Data Transport

Using fiber optic cable for data transport significantly reduces electrostatic discharge (ESD) failures and electromagnetic interference (EMI). Data integrity is also sustained in runs beyond 100 meters, the limit of Ethernet over twisted-pair cable. The UF-AE delivers data over long distances at high speed using fiber.

The UF-AE provides fiber connectivity to an RJ45 Ethernet device, which in turn provides 802.3af or 24V passive PoE to the UF-AE.

Features

Module Compatibility The versatile UF-AE connects any SFP or SFP+ module at the maximum speed of 1 Gbps. All UFiber SFP or SFP+ modules are supported. For more information, go to: **ui.com/accessories/fiber-modules-cable**

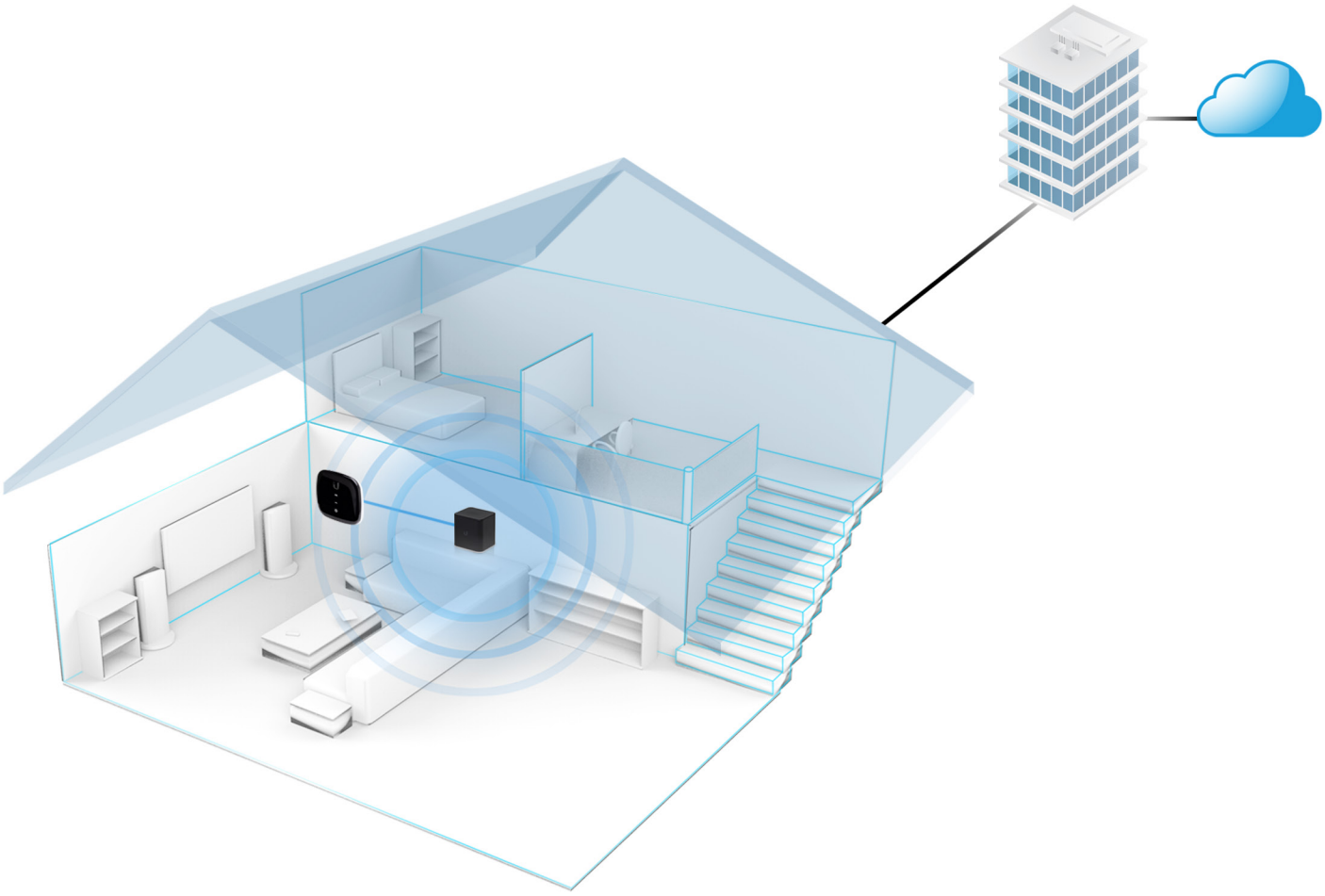
PoE Convenience The UF-AE is powered by 24VDC passive PoE or 802.3af active PoE.

Supported Speeds 1 Gbps fiber uplink speeds and 10/100/1000 Ethernet speeds are supported.

Status LEDs Intuitive LEDs indicate link and speed status.

Indoor Installation Use the included bracket to easily mount the UF-AE on a wall.

Application Diagram



The UFiber Active Ethernet delivers active fiber from the service provider to the customer's residence, where it is powered by the airCube™ AC, model ACB-AC.

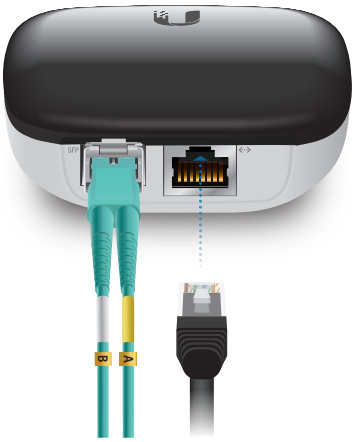
Model Summary

	UF-AE
Fiber Type	Active
SFP Module Compatibility	SFP or SFP+ (All UFiber Modules)
SFP Port Speed	1 Gbps
PoE Input	24V Passive PoE 802.3af PoE
RJ45 Port Speed	10/100/1000 Mbps
Mounting	Wall

Connecting SFP and RJ45

Insert a compatible active fiber SFP module.
(UFiber module, model UF-MM-1G shown)

Connect a fiber optic cable.
(UFiber ODN cable, model UOC-5 shown)



Connect an Ethernet cable from a device delivering PoE to the UF-AE.

UF-AE	
Dimensions	76.5 x 76.5 x 26.8 mm (3.01 x 3.01 x 1.06")
Weight	70 g (2.47 oz)
Networking Interfaces	(1) 1 Gbps SFP Port (1) 10/100/1000 Mbps RJ45 Port
Power Method	802.3af PoE: (Pins 1, 2+; 3, 6-) 24V Passive PoE: (Pins 4, 5+; 7, 8-)
Power Supply	802.3af PoE or 24V Passive PoE Device*
Max. Power Consumption	1.5W
Supported Voltage Range	16 to 57V
LEDs	(1) Ethernet (1) Optical Signal (1) Power
Operating Temperature	-40 to 60° C (-40 to 140° F)
Operating Humidity	10 to 90% Noncondensing
ESD/EMP Protection	± 12kV Contact/Air
Certifications	CE, FCC, IC

* *Power supply not included.*

Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at: ui.com/support/warranty
The limited warranty requires the use of arbitration to resolve disputes on an individual basis, and, where applicable, specify arbitration instead of jury trials or class actions.
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JL042419