

RUGGEDIZED SERIES • INDUSTRIAL POE MEDIA CONVERTER

AL-MC311PFP

PoE Media Converter – 10/100/1000Base-T to SFP

The Antek Labs AL-MC311PFP is an industrial fiber media converter that bridges copper Ethernet to an SFP fiber uplink for hardened, long-reach connectivity. It sources IEEE 802.3af PoE to the copper port(s) to power cameras, APs and IoT endpoints over the same cable. Fanless, aluminium-housed and DIN-rail mountable, it runs across a wide DC input and wide-temperature range for outdoor cabinets and industrial enclosures.

KEY FEATURES

- Transparent copper-to-fiber conversion with store-and-forward switching and auto-negotiation.
- SFP fiber uplink accepts multi-mode or single-mode optics for reach from 550 m to 120 km.
- Integrated PoE PSE — 802.3af — powering the endpoint over the copper port.
- Fanless aluminium housing, wide DC input, wide-temperature operation.
- DIN-rail or desktop mounting with industrial EMC and surge protection.

CONVERSION

Port configuration	PoE Media Converter – 10/100/1000Base-T to SFP
Standards	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x
Forwarding mode	Store-and-forward (full wire speed)
Switching capacity	12Gbps (non-blocking)
Copper reach	10/100/1000BASE-T, auto MDI/MDI-X, Cat 5e ≤100 m
Fiber uplink	SFP — MM 550 m/2 km · SM 20/40/80/120 km (module-dependent)

POWER OVER ETHERNET

PoE standard	IEEE 802.3af
Max power per port	15.4 W
PoE pinout	1/2 (+), 3/6 (-), Mode A

POWER

Power consumption	Standby<5W, Full load<65W
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PHYSICAL

Dimensions (L×W×H)	118*95*28mm
Weight	0.35kg / 0.8kg
Housing	Aluminium alloy, fanless
Mounting	Desktop, wall mount

ENVIRONMENTAL & PROTECTION

Operating temperature	-20°C~+55°C, 5%~90% RH Non condensing
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Storage temperature	-40 °C to +85 °C
Ingress protection	IP30
Surge / lightning	4KV 8/20us (8/20 μs)

COMPLIANCE & WARRANTY

Regulatory	CE · CE/LVD (EN 62368-1) · FCC Part 15 Class A · RoHS
Warranty	1 year, lifetime support

ORDERING INFORMATION

AL-MC311PFP PoE Media Converter – 10/100/1000Base-T to SFP.

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