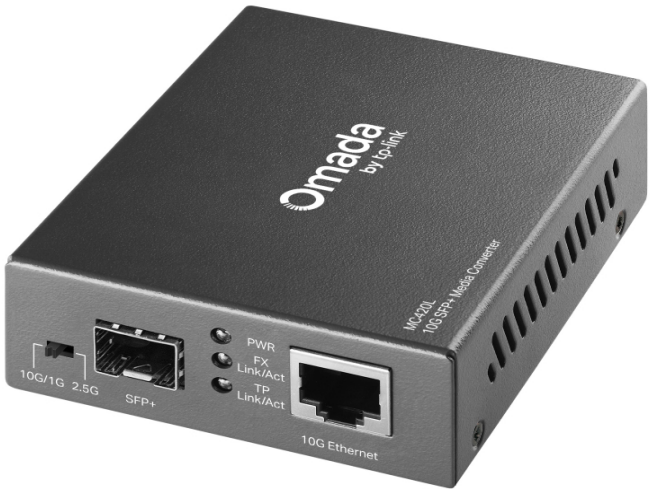
Media Converter

Datasheet
MC420L
10G SFP+ Media Converter



Highlights

- 1× 10M/100M/1G/2.5G/5G/10Gbps Auto-Negotiation RJ45 port supporting Auto-MDI/MDIX
- Auto-negotiation of Half-Duplex / Full-Duplex transfer mode
- Complies with IEEE 802.3an, IEEE 802.3ae, and IEEE 802.3aq
- Easy switching between 1G/10G and 2.5G optical port modes
- Optical port supports hot-swappable
- Maximum transmission distance depends on the inserted SFP+/SFP Module

Overview

The MC420L is a versatile, high-performance media converter designed to bridge 10G/2.5G fiber and 10GBASE-T copper networks. Its standout feature is a user-selectable DIP switch that enables flexible selection of the optical port speed—1G/10G or 2.5G. This makes it a perfect solution for both seamlessly upgrading legacy gigabit infrastructure and deploying new multi-gigabit backbones.
With this multi-gigabit fiber converter, building long-range, point-to-point connections is effortless, making it ideal for network extensions across multiple buildings, remote surveillance, and automated factory equipment. The MC420L offers flexible installation options, either as a standalone desktop unit or mounted in a compatible multi-slot chassis(Omada MC1400). Easy-to-view front panel LEDs provide real-time network status, and the maximum transmission distance is determined by the specific SFP/SFP+ module used.

Specifications

Hardware Features & Performance		
Model		MC420L
General	Standards	IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3bz, IEEE 802.3an, IEEE802.3z, IEEE802.3ae, IEEE802.3x
	LED	PWR, FX Link/Act, TP Link/Act
	Interface	SFP+ port, RJ-45 jack
	Twisted-Pair	10BASE-Te/100BASE-TX/1000BASE-T/2.5GBASE-T/5GBASE-T: 4-pair UTP/STP of Cat. 5e or above (maximum 100m) 10GBase-T: 4-pair UTP of Cat. 6 (maximum 55m), 4-pair UTP of Cat. 6a (maximum 100m), or 4-pair STP of Cat. 6 or above (maximum 100m)
	Fiber & Wave Length	Depends on the used SFP/SFP+ module
	Power	External Power Adapter: 9V/0.6A
	Max. Power Consumption	3.2 W
	Dimensions	3.7 × 2.87 × 1.06 in (94.5 × 73 × 27 mm)
	Certifications	CE, FCC
Physical & Environment	Operating Temperature	0˚C to 50˚C (32˚F to 122˚F)
	Storage Temperature	-40˚C to 70˚C (-40˚F to 158˚F)
	Operating Humidity	10% to 90% RH non-condensing
	Storage Humidity	5% to 90% RH non-condensing

Some models featured in this guide may be unavailable in your country or region. Visit the Omada by TP-Link website for local sales information: https://www.omadanetworks.com. Specifications are subject to change without notice.
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