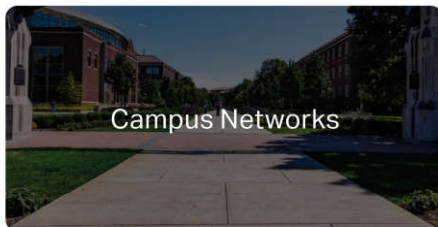
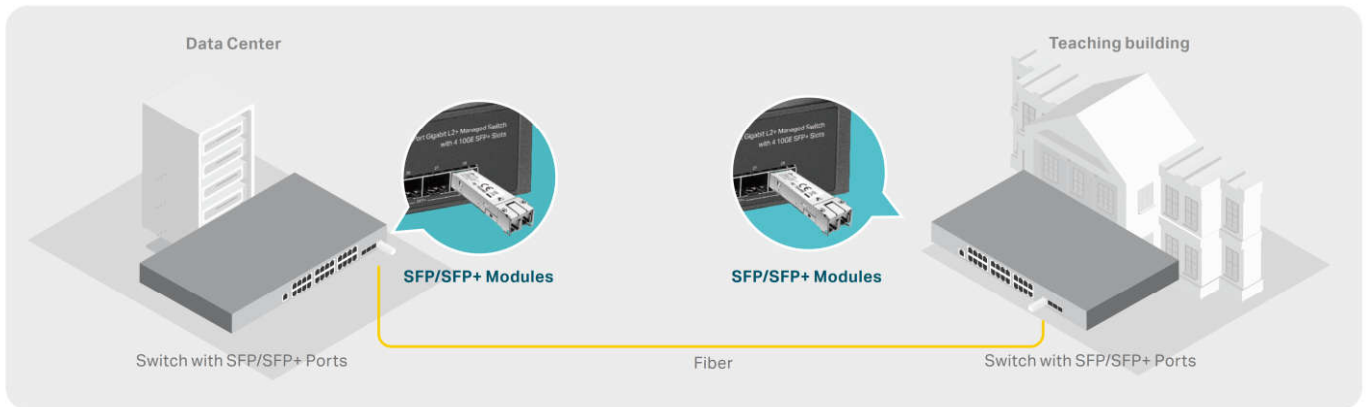


# SFP/SFP+ Modules—High-Speed Fiber Connections

TP-Link offers a variety of fiber modules to suit your fiber connectivity applications. Multi-mode and single-mode modules with 1000Base SFP or 10GBase SFP+ ports are available, ideal for linking enterprise fiber networks, campus fiber networks, ISP networks, and more.



## TP-Link SFP/SFP+ Modules at a Glance

Product Picture										
Model	TL-SM5110-LR	TL-SM5110-SR	TL-SM311LM	TL-SM311LS	TL-SM321A	TL-SM321B	TL-SM321A-2	TL-SM321B-2	TL-SM5310-T	TL-SM331T
Data Rate	10 Gbps				1.25 Gbps				10.31 Gbps	1.25 Gbps
Fiber Ports	2× LC/UPC Duplex Ports		2× LC/UPC Duplex Ports		1× LC/UPC Simplex Port				-	
RJ45 Ports	-								1× 10 Gbps RJ45 Port	1× 1000 Mbps RJ45 Port
Transmission Distance	10 km	300 m	550 m	20 km	20 km		2 km		31 m	100 m
Transmission Media	Dual Single-Mode Fibers	Dual Multi-Mode Fibers	Dual Multi-Mode Fibers	Dual Single-Mode Fibers	Single Single-Mode Fiber				Cat6a or above Ethernet Cable	Cat5e or above Ethernet Cable
Wavelength	1310 nm	850 nm	850 nm	1310 nm	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm	-	-
Dimensions (W × D × H)	2.2*0.5*0.4 in (56.7*13.9*10.35 mm)	2.4*0.6*0.5 in (61.3*14.5*12.2 mm)	2.2*0.5*0.5 in (55.4*13.7*12.9 mm)	2.2*0.6*0.5 in (55.4*14.6*12.9 mm)				2.7*0.5*0.5 in (67.4*13.75*13.8 mm)		
Operating Temperature	0–70 °C (32–158 °F)									
Environment	Storage Temperature: -40–85 °C (-40–185 °F); Operating Humidity: 10–90% RH Non-Condensing; Storage Humidity: 5–90% RH Non-Condensing									

## TP-Link 10G SFP+ Direct Attach Cable at a Glance

Product Picture		
Model	TL-SM5220-3M	TL-SM5220-1M
Length	3 m	1 m
Connector Type	10G SFP+ connector on both sides	
Cable Type	Passive Twinax	
Data Rate	10 Gbps	
Environment	Operating Temperature: 0–70 °C (32–158 °F); Storage Temperature: -40–80 °C (-40–176 °F); Operating Humidity: 10–90% RH Non-Condensing; Storage Humidity: 5–90% RH Non-Condensing	