

■ Order numbers/product description

Part Number	Part Number	Description
4 Port Version	TCSESM043F23F0	4 10/100 TX Managed
	TCSESM043F1CU0	3 10/100 TX 1 100 FX-MM Managed
	TCSESM043F2CU0	2 10/100 TX 2 100 FX-MM Managed
	TCSESM043F1CS0	3 10/100 TX 1 100 FX-SM Managed
	TCSESM043F2CS0	2 10/100 TX 2 100 FX-SM Managed
8 Port Version	TCSESM083F23F0	8 10/100 TX Managed
	TCSESM083F1CU0	7 10/100 TX 1 100 FX-MM Managed
	TCSESM083F2CU0	6 10/100 TX 2 100 FX-MM Managed
	TCSESM083F1CS0	7 10/100 TX 1 100 FX-SM Managed
	TCSESM083F2CS0	6 10/100 TX 2 100 FX-SM Managed
16 Port Version	TCSESM163F23F0	16 10/100 TX Managed
	TCSESM163F2CU0	14 10/100 TX 2 100 FX-MM Managed
	TCSESM163F2CS0	14 10/100 TX 2 100 FX-SM Managed
24 Port Version	TCSESM243F2CU0	22 10/100 TX 2 100 FX-MM Managed
Gigabit - 10 Port Version	TCSESM103F23G0	8 10/100 TX 2 10/100/1000 TX Managed
	TCSESM103F2LG0	8 10/100 TX, 2 1000 SFP (fiber) Managed
Note: This product ships with open sockets (SFP) on the fiber ports. In order to use these ports, order 1 or 2 fiber modules in any combination (see below).		
Fiber Media Modules for Gigabit	TCSEAAF1LFU00	fiber module SFP-SX/LC
	TCSEAAF1LFS00	fiber module SFP-LX/LC
	TCSEAAF1LFH00	fiber module SFP-LH/LC
Accessories	TCSEAM0100 Adapter	Memory Back-up Adapter
	490NTRJ11 Cable	Terminal 490NTRJ11 cable

■ Network range

TP port	
Length of a twisted pair segment	max. 100 m/328 ft (for cat5e cable)

Table 4: TP port 10BASE-T / 100BASE-TX / 1000BASE-T

Description	Wave length	Fiber	System attenuation	Expansion	Fiber data
Multimode FX, DSC, 10/100 Mbit/s	1300 nm	50/125 μm	0-8 dB	0-5 km	1.0 dB/km, 800 MHz*km
Multimode FX, DSC, 10/100 Mbit/s	1300 nm	62,5/125 μm	0-11 dB	0-4 km	1.0 dB/km, 500 MHz*km
Singlemode FX, DSC, 10/100 Mbit/s	1300 nm	9/125 μm	0-16 dB	0-30 km	0.4 dB/km; 3.5 ps/(nm*km)

Table 5: F/O port 100BASE-FX

Description SFP-....	Wave length	Fiber	System attenuation	Expansion	Fiber data
-SX/LC...	MM 850 nm	50/125 μm	0-7.5 dB	0-550 m	3.0 dB/km, 400 MHz*km
-MX/LC...	MM 1310 nm	50/125 μm	0-8 dB	2 km ^a	1.0 dB/km, 500 MHz*km
-MX/LC	MM 1310 nm	62.5/125 μm	0-8 dB	1 km	1.0 dB/km, 500 MHz*km
-LX/LC...	MM 1310 nm ^b	50/125 μm	0-11 dB	0-550 m	1.0 dB/km, 800 MHz*km
-LH/LC...	LH 1550 nm	9/125 μm	6-22 dB	24-72 km	0.25 dB/km; 19 ps/(nm*km)
-LX+/LC	SM 1310 nm	9/125 μm	5-20 dB	14-42 km	0.4 dB/km; 3.5 ps/(nm*km)

Table 6: Fiber port 1000BASE-FX (SFP fiber optic Gigabit Ethernet Transceiver)

- a. Distances up to 3 km reachable, 1000 MHz*km (1300 nm)
- b. With F/O adapter compliant with IEEE 802.3-2002 clause 38 (single-mode fiber offset-launch mode conditioning patch cord)

MM = Multimode, SM = Singlemode, LH = Singlemode Longhaul