

Accessories

Small Form-factor Pluggable (SFP) Modules

Table 64 - SFP Modules Technical Specifications

Cat. No.	Description	Interface Connector	Wavelength (nm)	Core Size/ Cladding Size (micron)	Modal Bandwidth (MHz/km)	Cable Length	DOM ⁽¹⁾	Transmit Power (dBm)	Receive Power (dBm)
1783-SFP100FX	100BASE-FX multimode fiber	Dual LC	1310	50/125	500	2 km (6562 ft)	Yes	-14 (max)...-20 (min)	-14 (max)...-31 (min)
				62.5/125	500				
1783-SFP100LX	100BASE-LX singlemode fiber	Dual LC	1310	G.652	—	10 km (32,808 ft)	Yes	-8 (max)...-15 (min)	-8 (max)...-28 (min)
1783-SFP100EXC	100BASE-EX singlemode fiber	Dual LC	1310	G.652 ⁽²⁾	—	40 km (131,234 ft)	No	0 (max)...-5 (min)	-8 (max)...-28 (min)
1783-SFP100ZXC	100BASE-ZX singlemode fiber	Dual LC	1550	G.652 ⁽²⁾	—	80 km (262,467 ft)	No	+2 (max)...-3 (min)	-8 (max)...-30 (min)
1783-SFP100T ⁽³⁾	100BASE-T copper	RJ-45	—	—	—	100 m (328 ft)	No	—	—
1783-SFP16SX	1000BASE-SX multimode fiber	Dual LC	850	62.5/125	160	220 m (722 ft)	Yes	-3 (max)...-9.5 (min)	0 (max)...-17 (min)
				62.5/125	200	275 m (902 ft)			
				50/125	400	500 m (1640 ft)			
				50/125	500	550 m (1804 ft)			
1783-SFP16LX	1000BASE-LX/LH singlemode fiber	Dual LC	1310	G.652	—	10 km (32,808 ft)	Yes	-3 (max)...-9.5 (min)	-3 (max)...-20 (min)
1783-SFP16EXE ⁽⁴⁾	1000BASE-EX singlemode fiber	Dual LC	1310	G.652 ⁽²⁾	—	40 km (131,234 ft)	Yes	+3 (max)...-1 (min)	+1 (max)...-22 (min)
1783-SFP16ZX ⁽⁵⁾	1000BASE-ZX singlemode fiber	Dual LC	1550	G.652 ⁽²⁾	—	70 km (229,659 ft)	Yes	+5 (max)...0 (min)	-3 (max)...-23 (min)
1783-SFP16TE	1000BASE-T copper	RJ-45	—	—	—	100 m (328 ft)	No	—	—
1783-SFP10GSRE	10GBASE-SR multimode fiber	Dual LC	850	62.5/125	160 (FDDI)	26 m (85 ft)	Yes	-1.2 (max)...-7.3 (min)	-1.0 (max)...-9.9 (min)
				62.5/125	200 (OM1)	33 m (108 ft)			
				50/125	400	66 m (216 ft)			
				50/125	500 (OM2)	82 m (269 ft)			
				50/125	2000	300 m (984 ft)			
				50/125	4700	400 m (1312 ft)			
1783-SFP10GLRE	10GBASE-LR singlemode fiber	Dual LC	1310	G.652 ⁽²⁾	—	10 km (32,808 ft)	Yes	+0.5 (max)...-8.2 (min)	+0.5 (max)...-14.4 (min)

(1) Digital Optical Monitoring (DOM) is supported on the switches via the command-line interface (CLI).

(2) ITU-T G.652 SMF as specified by the IEEE 802.3z standard.

(3) The 1783-SFP100T module requires Stratix 5400 or 5410 firmware revision 3.001or later, Stratix 5700 firmware revision 8.001or later, or Stratix 8000 firmware revision 12.001 or later.

(4) The 1783-SFP16EXE module operates on standard single-mode fiber-optic link spans of up to 40 km in length. For back-to-back connectivity, insert a 5-dB inline optical attenuator between the fiber-optic cable and the receiving port on the SFP module at each end of the link.

(5) When shorter distances of single-mode fiber (SMF) are used, you can avoid overloading the receiver by inserting an inline optical attenuator in the link. If the fiber-optic cable span loss is less than 8 dB, insert a10-dB inline optical attenuator between the fiber-optic cable plant and the receiving port on the SFP module at each end of the link.

Table 65 - SFP Modules Temperature Ratings

Cat. No.	Commercial ⁽¹⁾ 0 ...+70 °C (+32 ...+158 °F)	Extended ⁽¹⁾ -5 ...+85 °C (+23...+185 °F)	Industrial ⁽¹⁾ -40 ...+85 °C (-40...+185 °F)
1783-SFP100FX	No	No	Yes
1783-SFP100LX	No	No	Yes
1783-SFP100EXC	Yes	No	No
1783-SFP100ZXC	Yes	No	No
1783-SFP100T	No	No	Yes
1783-SFP1GSX	No	No	Yes
1783-SFP1GLX	No	No	Yes
1783-SFP1GEXE	No	Yes	No
1783-SFP1GZX	No	No	Yes
1783-SFP1GTE	No	Yes	No
1783-SFP10GSRE	No	Yes	No
1783-SFP10GLRE	No	Yes	No

(1) Once you install SFP modules in the switch, the overall temperature rating of the combined modules (switch and SFP modules) is limited to the lowest maximum temperature rating and the highest minimum temperature rating.

Table 66 - SFP and Switch Compatibility

Cat. No.	Stratix 2000 ^{(1) (2)}	Stratix 5400	Stratix 5410	Stratix 5700	Stratix 5800	Stratix 5950	Stratix 6000	Stratix 8000	Stratix 8300
1783-SFP100FX	Supported	Supported	Supported	Supported	Supported	Supported	Not Supported	Supported	Supported
1783-SFP100LX	Supported	Supported	Supported	Supported	Supported	Supported	Not Supported	Supported	Supported
1783-SFP100EXC	Supported	Supported	Supported	Supported	Supported	Not Supported	Not Supported	Supported	Supported
1783-SFP100ZXC	Supported	Supported	Supported	Supported	Supported	Not Supported	Not Supported	Supported	Supported
1783-SFP100T ⁽³⁾	Not Supported	Supported	Supported	Supported	Not Supported	Not Supported	Not Supported	Supported	Not Supported
1783-SFP1GSX ⁽⁴⁾	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
1783-SFP1GLX ⁽⁴⁾	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
1783-SFP1GEXE ⁽⁴⁾	Supported	Supported	Supported	Supported	Supported	Not Supported	Not Supported	Supported	Supported
1783-SFP1GZX ⁽⁴⁾	Supported	Supported	Supported	Supported	Supported	Not Supported	Not Supported	Supported	Supported
1783-SFP1GTE ⁽⁴⁾	Not Supported	Supported	Supported	Supported	Supported	Not Supported	Not Supported	Supported	Supported
1783-SFP10GSRE	Not Supported	Not Supported	Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported
1783-SFP10GLRE	Not Supported	Not Supported	Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported

(1) The SFP modules shown in this table for Stratix 2000 switches must be ordered separately and are not the same as the preinstalled SFP modules that ship with the switches.

(2) Stratix 2000 Gigabit Ethernet (GE) SFP slots support only GE SFP modules 1783-SFP1GSX, 1783-SFP1GLX, 1783-SFP1GEXE, and 1783-SFP1GZX.

(3) The 1783-SFP100T module requires Stratix 5400 or 5410 firmware revision 3.001 or later, Stratix 5700 firmware revision 8.001 or later, or Stratix 8000 firmware revision 12.001 or later.

(4) Gigabit Ethernet (GE) SFP modules work only in GE SFP slots.

Memory Cards

Cat. No.	Description	Compatibility
1784-SD1	1 GB industrial SD card	Stratix 5700 Stratix 5950
1784-SDHC8	8 GB industrial SDHC card	Stratix 5800
1783-MCF	CompactFlash card (spare)	Stratix 8000
1783-RMCF	CompactFlash card (spare)	Stratix 8300