

4, 8, 12 or 16 Channel Optical Splitters via LC Optical Interface

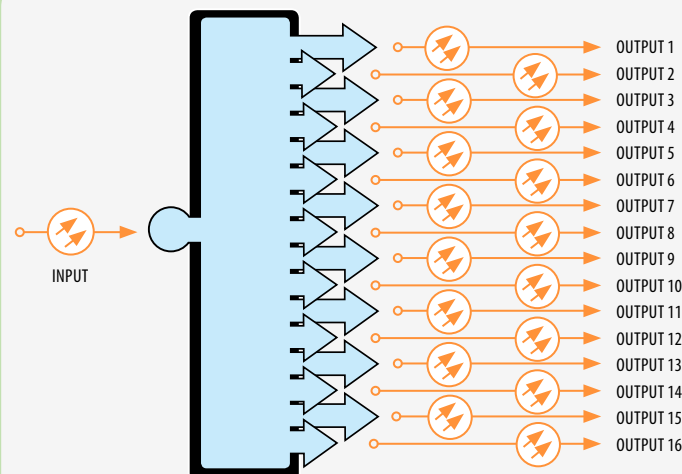


SP-4Q-x

SP-8Q-x

SP-12Q-x

SP-16Q-x



- 16 Channels Splitter Shown -

FEATURES

- One and two slot card/module designs
- Available for use with either Multimode fiber 62.5/125 & 50/125µm or Singlemode fiber 9/125µm
- Optical Interface build on LC Optical Interface
- Available in either 4, 8, 12 or 16 channel configurations
- ST, FC or SC optical connectors for common ports
- Hot swappable cards
- Class 1 Laser Safety Rating

CONFIGURATIONS

This SP product family is available as rack mount cards and stand-alone modules that can be installed in any of Meridian's desk chassis or in our standard 19" racking frames.

These products can be converted to stand-alone modules by utilizing one of our shelf mount chassis (SR-500 or SR-1002 series chassis).

DESCRIPTION

These cards are the part of Meridian's DigiView™ product family and are passive, all-optical splitters and available in either 4, 8, 12 and 16 channels.

This product series using user friendly industry standard LC Optical Interface.

Both single-mode and multimode versions are available.

These splitters are designed to accept one optical signal and split it into four, eight, twelve or sixteen equal signals for transmission over the same number of individual fibers for distribution and/or fiber protection applications.

These units are compatible with all Meridian products as well as many other fiber transmission products in the market.

MARKETS

- ✓ Security and surveillance
- ✓ Fiber protection systems
- ✓ AV & Broadcast systems
- ✓ Access Control
- ✓ Video /Audio distribution & transport systems
- ✓ Intelligent transportation systems (ITS)

SPECIFICATIONS

Optical

For Multimode Fiber					
	fiber type	4 channel splitter	8 channel splitter	12 channel splitter	16 channel splitter
Central wavelength:	all fibers	850, 1300nm	850, 1300nm	850, 1300nm	850, 1300nm
Configuration:	all fibers	1x4	1x8	1x12	1x16
Max insertion loss:	50/125µm fiber	7.8dB	11.5dB	13dB	14.5dB
Max insertion loss:	62.5/125µm fiber	7.5dB	11dB	12.5dB	14dB
Directivity:	all fibers	≥ 40dB	≥ 40dB	≥ 40dB	≥ 40dB
Thermal stability:	all fibers	0.2 dB	0.2 dB	0.2 dB	0.2 dB

For Singlemode Fiber					
Central wavelength:	9/125um fiber	1260 - 1650 nm	1260 - 1650 nm	1260 - 1650 nm	1260 - 1650 nm
Configuration:	9/125um fiber	1x4	1x8	1x12	1x16
Max insertion loss:	9/125um fiber	7.5dB	11dB	12.5dB	14dB
Directivity:	9/125um fiber	≥ 55dB	≥ 55dB	≥ 55dB	≥ 55dB
PDL:	9/125um fiber	0.3 dB	0.3 dB	0.3 dB	0.3 dB
Return Loss:	9/125um fiber	≥ 50dB	≥ 50dB	≥ 50dB	≥ 50dB

PART NUMBERS

MULTIMODE		
4 ch.	SP-4Q-0	4-Ch. optical splitter, 1-slot card, Multimode, 850nm, 50/125um or 62.5/125um
	SP-4Q-1	4-Ch. optical splitter, 1-slot card, Multimode, 1300nm, 50/125um or 62.5/125um
8 ch.	SP-8Q-0	8-Ch. optical splitter, 1-slot card, Multimode, 850nm, 50/125um or 62.5/125um
	SP-8Q-1	8-Ch. optical splitter, 1-slot card, Multimode, 1300nm, 50/125um or 62.5/125um
12 ch.	SP-12Q-0	12-Ch. optical splitter, 2-slot card, Multimode, 850nm, 50/125um or 62.5/125um
	SP-12Q-1	12-Ch. optical splitter, 2-slot card, Multimode, 1300nm, 50/125um or 62.5/125um
16 ch.	SP-16Q-0	16-Ch. optical splitter, 2-slot card, Multimode, 850nm, 50/125um or 62.5/125um
	SP-16Q-1	16-Ch. optical splitter, 2-slot card, Multimode, 1300nm, 50/125um or 62.5/125um

Connectors

Optical Common	MM default - ST, SM default- FC, SC (optional)
Optical Interface	LC
Power	None - passive

Physical

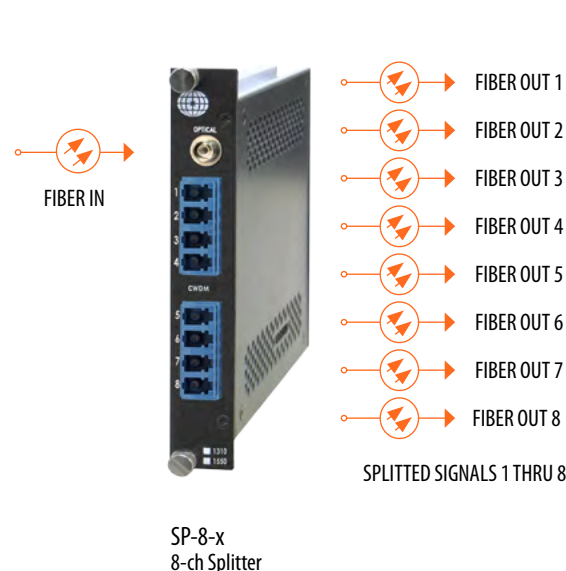
Card	4, 8 channel splitters (one slot card)	12, 16 channel splitter (two slots card)
Dimensions	160 mm (6.3") L, 127 mm (5") H, 20mm (0.80") W	160 mm (6.3") L, 127 mm (5") H, 44 mm (1.7") W
Weight	~ 450 grams (16 Oz.)	~ 550 grams (19.4 Oz.)
No. of Slots	1	2
Module	See SR-500 Brochure	See SR-1002 Brochure

Environmental

Operating Temperature	-34°C to +74°C
Storage Temperature	-40°C to ~ +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

MTBF	>170,000 hours (35°C per MIL 217F) 35°C per MIL217F
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PART NUMBER DIAGRAM

