



Maximizing Network Capacity with Low Cost and High Efficiency.

Ascentac FCM4100 & 4200 Series, CWDM / C-band DWDM, can combine multiple wavelengths from different fibers via optical multiplexer onto one single fiber for transmission. It is used for 5G wireless fronthaul optical data transport network solution.

Ascentac FCM4100 & 4200 Series features low power consumption, low insertion loss and high isolation. It has excellent wavelength stability. The initial wavelength and number of channels are specifiable.

The 1U-high chassis design is convenient for mounting in a standard-sized, 19" or 23"-wide rack.

Benefits

- Excellent wavelength stability
- Low insertion loss and high isolation
- Up to 40 λ available, initial wavelength and number of channels specifiable
- LC connector

Application

- Data center or FTTH
- Fiber monitoring
- CATV network
- 4G or 5G fronthaul

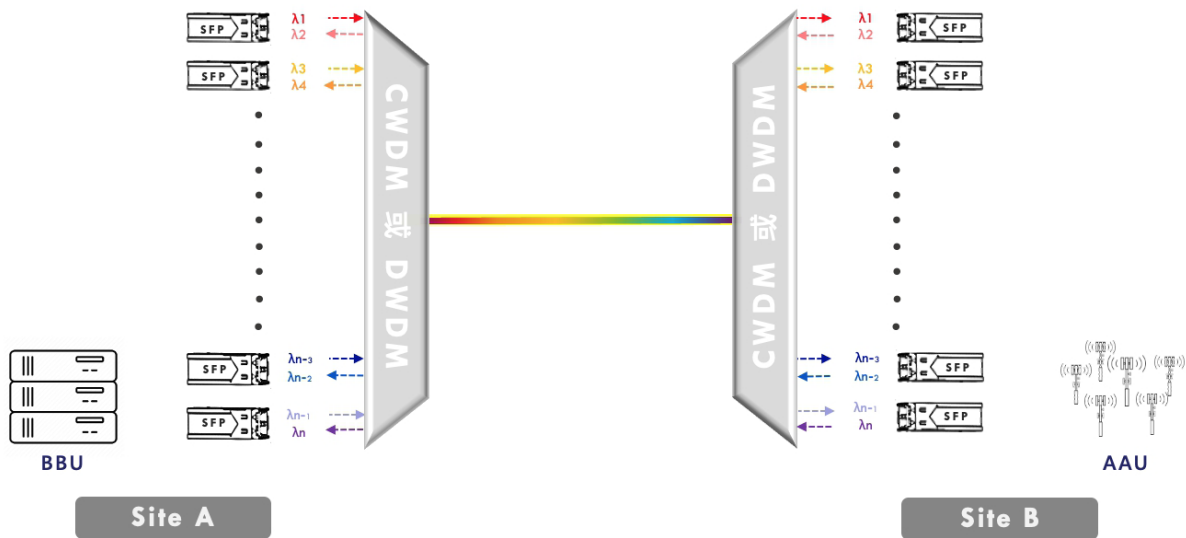
1U Managed Rackmount Design with High Flexibility

Ascentac FCM4100 & 4200 Series can be mounted in a standard-sized, 19" or 23"-wide rack.
 Width x Height x Depth : 438 x 44.4 x 238.2 mm

Flexible mounting bracket for easy installation in a rack



Save Fiber Resources Through Transmitting Multiple Wavelengths on One Optical Fiber



- BBU: Base Band Unit
- AAU: Active Antenna Unit
- SFP: Small Form-factor Pluggable
- WDM: Wavelength Division Multiplexing
- CWDM: Coarse Wavelength Division Multiplexing
- DWDM: Dense Wavelength Division Multiplexing

Specification

CWDM & C-band DWDM (1U Rackmount)			
Model		FCM4100 (CWDM)	FCM4200 (DWDM)
Wavelength Range		1271 to 1611 (nm)	192.0 to 195.9 (THz)
Maximum Channel		18	40
Channel Spacing		20 (nm)	100 (GHz)
Insertion Loss (dB)	COM → Channel	3.2	3.9
	COM → Mon	18.6	18.6
	Channel → Mon	21.3	22
Channel Isolation (dB)	Adjacent	30	25
	Non-adjacent	45	30
Return Loss (dB)		40	
Optical Connector		LC/PC	
Working Temperature (°C)		0 to +65	
Storage Temperature (°C)		-20 to +70	
Relative Humidity (%)		5 to 95 % Non-condensing	
Size (H x W x D) (mm)		44.4 x 438 x 237	
Weight (kg)		< 3 (Mounting ears excluded)	

Ordering Information

CWDM

FCM 07-041XX

Channel ○

- 01 : 6-CH, 6 wavelengths (3 pairs of TXs & RXs)
- 02 : 8-CH, 8 wavelengths (4 pairs of TXs & RXs)
- 03 : 12-CH, 12 wavelengths (6 pairs of TXs & RXs)
- 04 : 18-CH, 18 wavelengths (9 pairs of TXs & RXs)

* TX: Transmit; RX: Receive

Note : 1.Please specify wavelengths after choosing the number of channel. (Options for wavelengths: 1271nm, 1291nm, 1311nm, 1331nm, 1351nm, 1371nm, 1391nm, 1411nm, 1431nm, 1451nm, 1471nm, 1491nm, 1511nm, 1531nm, 1551nm, 1571nm, 1591nm & 1611nm)

Example : FCM 07-04101

Wavelengths : 1271nm 、 1291nm 、 1311nm 、 1331nm 、 1591nm 、 1611nm ◦

C band DWDM

FCM 07-042XX

Channel ○

- 01 : 12-CH, 12 wavelengths (6 pairs of TXs & RXs)
- 02 : 16-CH, 16 wavelengths (8 pairs of TXs & RXs)
- 03 : 20-CH, 20 wavelengths (10 pairs of TXs & RXs)
- 04 : 24-CH, 24 wavelengths (12 pairs of TXs & RXs)
- 05 : 28-CH, 28 wavelengths (14 pairs of TXs & RXs)
- 06 : 32-CH, 32 wavelengths (16 pairs of TXs & RXs)
- 07 : 36-CH, 36 wavelengths (18 pairs of TXs & RXs)
- 08 : 40-CH, 40 wavelengths (20 pairs of TXs & RXs)

* TX: Transmit; RX: Receive

Note : 1.Please specify wavelengths after choosing the number of channel. (Options for wavelengths: 192.0THz, 192.1THz, 192.2THz, 192.3THz, 192.4THz, and so forth. Only until 195.9THz)

Example : FCM 07-04201

Wavelength: 192.0THz, 192.1THz, 193.2THz, 193.3THz, 193.6THz, 193.7THz,
194.4THz, 194.5THz, 194.6THz, 194.7THz, 195.8THz, 195.9THz

Option

Fiber-optic Patch Cord

A0-00601	Single Mode 9/125--SC/UPC to SC/UPC--2m
A0-00602	Single Mode 9/125--SC/UPC to LC/UPC--2m
A0-00603	Single Mode 9/125--SC/UPC to ST/UPC--2m
A0-00604	Single Mode 9/125--SC/APC to SC/UPC--2m
A0-00605	Single Mode 9/125--SC/APC to LC/UPC--2m
A0-00606	Single Mode 9/125--SC/APC to SC/APC--2m
A0-00607	Single Mode 9/125--FC/UPC to FC/UPC--2m

Adapter Cleaning Sticks - 100 pcs/box

02-0A110	1.25mm without ESD (Electro-Static Discharge)
02-0A120	2.5mm without ESD (Electro-Static Discharge)
02-0B110	1.25mm with ESD (Electro-Static Discharge)
02-0B120	2.5mm with ESD (Electro-Static Discharge)

Fiber Cleaner - 400 wipes/pc

02-00411	Fiber Cleaner--1 slot
02-00412	Fiber Cleaner--2 slots
02-00421	Cartridge--1 slot
02-00422	Cartridge--2 slots



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