

Plug-and-Play CWDM Modules

Coarse wavelength division multiplexing modules for cabinets

Installed in outside plant cabinets, CommScope's plug-and-play CWDM modules give service providers the ability to combine (or multiplex) two or more signals with different wavelengths in one common fiber. The same module can be used to separate the wavelengths (de-multiplex) at the remote location.

Surrounded by superior cable management, CWDM modules requires less time to route fiber in the cabinet, saving operators time and cost. Available in 8-, 10- and 16-channel configurations, the CWDM module serves a variety of outside plant applications.

Advantages

- Standardized CWDM modules fits all FDH 3000 cabinet sizes
- Reduced bend radius fiber technology provides consistent performance and low optical loss
- Plug-and-play module ensures fast installation and commissioning in network
- Ruggedized cable protects for material handling and extreme cold temperatures from -55 C to +85 C
- Factory terminated SC/APC connectors on far end for fast subscriber turn ups

Applications

- GPON and WDM-PON on the same network
- CWDM upgrades in metro networks
- Increase capacity in the outside plant
- Cell site backhaul

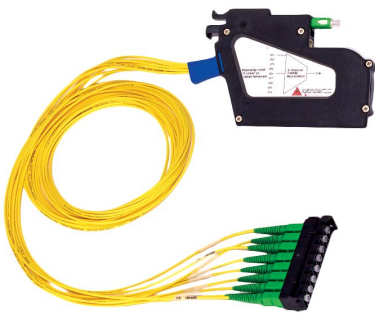
Plug-and-Play CWDM Modules

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8-Channel CWDM

Ordering Information

Description	Part Number
8-Channel plug-and-play CWDM with 1310 upgrade port	FPS-CJAAOBY1000



Specifications

Parameter	Specification	Unit
Number of Channels	8	nm
Wavelengths	1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611	nm
CWDM Channel Passband	Center λ +/- 6.5	nm
Insertion Loss (CWDM Channels)*	3.2	dB max
Insertion Loss (Upgrade Port)*	1.0	dB max
Isolation: Adjacent Channel	30	dB min
Isolation: Non-adjacent Channel	45	dB min
Directivity	50	dB min
Return Loss*	45	dB min
Polarization Dependent Loss	0.2	dB max
Operating Temperature Range	-40 to +85	°C
Module Style	Plug-and-Play Housing	
Module Size	0.5 x 3.8 x 6	inches
Module Color	Black	
Fiber Cable Type	2.0 mm yellow	
Fiber Pigtail Length	54	inches

* Note: Includes WDL, TDL, and PDL. Does not include connectors. All specifications are preliminary and are subject to change

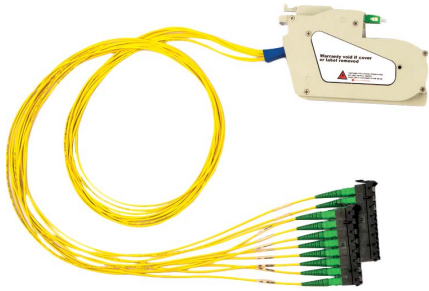
Plug-and-Play CWDM Modules

Coarse wavelength division multiplexing modules for cabinets

10-Channel CWDM

Ordering Information

Description	Part Number
10 - Channel plug-and-play CWDM with 1310 upgrade port	FPS-CJJCA0BY1000



Specifications

Parameter	Specification	Unit
Number of Channels	10	nm
Wavelengths	1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611	nm
Upgrade Port	1310 + 50	nm
CWDM Channel Passband	Center λ +/- 6.5	nm
Insertion Loss (CWDM Channels)*	3.6	dB max
Insertion Loss (Upgrade Port)*	1.8	dB max
Isolation: Adjacent Channel	30	dB min
Isolation: Non-adjacent Channel	45	dB min
Directivity	50	dB min
Return Loss*	45	dB min
Polarization Dependent Loss	0.2	dB max
Operating Temperature Range	-40 to +85	°C
Module Style	Plug-and-Play Housing	
Module Size	1.05 x 3.8 x 6	inches
Module Color	Putty White	
Fiber Cable Type	2.0 mm yellow	
Fiber Pigtail Length	54	inches

* Note: Includes WDL, TDL, and PDL. Does not include connectors.
All specifications are preliminary and are subject to change

Plug-and-Play CWDM Modules

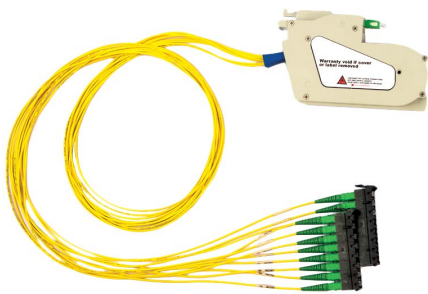
Coarse wavelength division multiplexing modules for cabinets

16-Channel CWDM

Ordering Information

Description	Part Number
16 - Channel plug-and-play CWDM*	FPS-CJJPA0BN1000

* No express port



Specifications

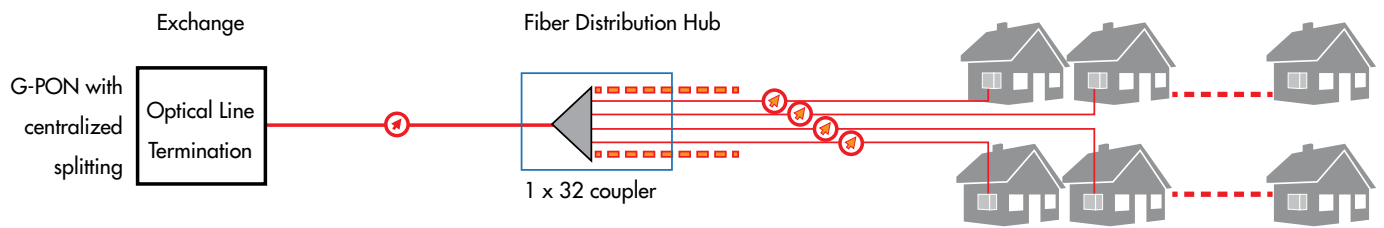
Parameter	Specification	Unit
Number of Channels	16	
Wavelengths	1271, 1291, 1311, 1331, 1351, 1371, 1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611	nm
Upgrade Port	none	nm
CWDM Channel Passband	Center λ +/- 6.5	nm
Insertion Loss (CWDM Channels)*	3.6	dB max
Insertion Loss (Upgrade Port)*	N/A	dB max
Isolation: Adjacent Channel	30	dB min
Isolation: Non-adjacent Channel	45	dB min
Directivity	50	dB min
Return Loss*	45	dB min
Polarization Dependent Loss	0.2	dB max
Operating Temperature Range	-40 to +85	°C
Module Style	Plug-and-Play Housing	
Module Size	1.05 x 3.8 x 6	inches
Module Color	Putty White	
Fiber Cable Type	2.0 mm yellow	
Fiber Pigtail Length	54	inches

* Note: Includes WDL, TDL, and PDL. Does not include connectors.
All specifications are preliminary and are subject to change

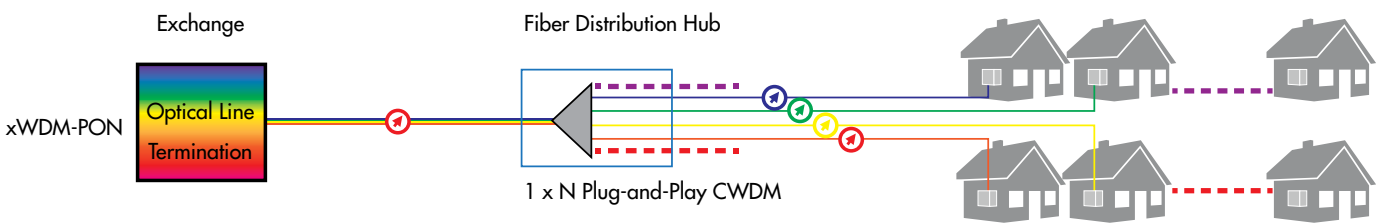
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Leveraging Plug-and-Play CWDM in Existing GPON Networks



2.4 GBPS + 32 Customers = 75 MBPS (shared bandwidth)



1 GBPS Per Customer = 1 GBPS (dedicated bandwidth)



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