

FMU-WDM43C Coexistence Wavelength Division Multiplexer

Support GPON/XG(S)-PON/NG-PON2/CATV Four in One



Overview

The GPON is an intermediate device for PON evolution. It adopts TFF technology and can coexist GPON, XG(S)-PON, NG-PON2 and CATV signals in the same network environment. GPON and XG(S)-PON allow GPON and XG(S)-PON to coexist in the existing network without affecting existing services, and realize smooth evolution from GPON to XG(S)-PON, which is stable, reliable and convenient to manage , to meet the service rate upgrade requirements. At the same time, the broadband working range of 1260-1603nm provides support conditions for the evolution of PON.

Benefits

- Intermediate Equipment for PON Evolution
- Support GPON, XG(S)-PON, NG-PON2 Access Technology Coexistence
- Low Insertion Loss (IL)
- High Isolation
- Rugged, Ultra Stable and Highly Reliable
- Wide Operating Wavelength Range

Technical Specification

Coexistence Wavelength Division Multiplexer comes with advanced hardware architecture design. Here's a look at the details.

CHARACTERISTICS

FMU-WDM43C	
Optical Specifications	
Operating Wavelength	1260~1603nm
Channel Wavelength	
GPON	1290~1330nm 1480~1500nm
XG(S)-PON	1260~1280nm 1575~1581nm
NG-PON2	1524~1544nm 1596~1603nm
CATV	1550~1560nm
Insertion Loss(IL)	
Com to GPON	≤0.8dB
Com to XG(S)-PON	≤1.1dB
Com to NG-PON2	≤1.4dB
Com to CATV	≤1.7dB
Isolation	
GPON Port	≥30dB
XG(S)-PON Port	≥30dB
NG-PON2 Port	≥30dB
CATV Port	≥30dB
Parameters	
Ripple	≤0.3dB
PDL	≤0.2dB

NOTES: Specified with connectors at room temperature.

CHARACTERISTICS

	FMU-WDM43C
Parameters	
PMD	$\leq 0.2\text{ps}$
RL	$\geq 45\text{dB}$
Directivity	$\geq 50\text{dB}$
Handling Power	$\leq 500\text{mw}$
Operating Temperature	$-10\text{ to }70^{\circ}\text{C} (-10\text{ to }158^{\circ}\text{F})$
Storage Temperature	$-40\text{ to }85^{\circ}\text{C} (-40\text{ to }185^{\circ}\text{F})$
Pigtail and Connector Type/Length	
Fiber Type	Corning SMF28e+® or equivalent, 900um
Optical Connector (All port)	SC/APC