

FMU-WDM430 Coexistence Wavelength Division Multiplexer Datasheet

Support GPON/XG-PON/NG-PON2/OTDR 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 OTDR 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 1260-1660nm 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-WDM430
--	------------

Optical Specifications

Operating Wavelength	1260nm-1660nm
----------------------	---------------

Channel Wavelength

GPON	1290nm-1330nm 1480nm-1500nm
XG(S) -PON	1260nm-1280nm 1575nm-1581nm
NG-PON2	1524nm-1544nm 1596nm-1603nm
OTDR	1640nm-1660nm

Insertion Loss(IL)

Com to GPON	≤0.8dB
Com to XG(S)-PON	≤1.1dB
Com to NG-PON2	≤1.4dB
Com to OTDR	≤1.7dB

Isolation

GPON Port	≥30dB
XG(S)-PON Port	≥30dB
NG-PON2 Port	≥30dB
OTDR Port	≥15dB

CHARACTERISTICS

	FMU-WDM430
Parameter	
Ripple	≤0.3dB
PDL	≤0.2dB
PMD	≤0.2ps
RL	≥45dB
Directivity	≥50dB
Handing Power	≤500mw
Operating Temperature	-10°C to 70°C (-10 to 158°F)
Storage Temperature	-40°C to 85°C (-40 to 185°F)
Pigtail and Connector Type/Length	
Fiber Type	Corning SMF28e+® or equivalent , 900um
Optical Connector (All port)	SC/APC

Note: Including connector loss, no TDL.