

UNIVERSAL NID BOX PIGTAIL COEXISTENCE MODULES (CEM)

OVERVIEW

Optical Coexistence Element Modules (CEM) unleash the locked in potential of fiber cable in use for passive optical networking (PON) architectures. CEM modules allow for overlay of complimentary wavelengths to be transported on the same single fiber that is used to transport PON services. CEM modules can be used to overlay wideband wavelengths like 1310nm or 1550nm, discrete wavelengths like CWDM or DWDM or simply allow the coexistence of multiple different PON technologies like GPON, XGS-PON, NG-PON2, 25GS-PON, and 50G-PON.



PLO-MFFT-01W3-SA



PLO-MFFT-01W4-SA

FEATURES

- Wall or Panel Mount
- Small Form Factor
- Integrated Mounting Holes
- SC-APC or SC-UPC
- I-Temp

ENVIRONMENT

- Remote Site
- Cabinet
- Remote Site
- NID

CONFIGURATIONS

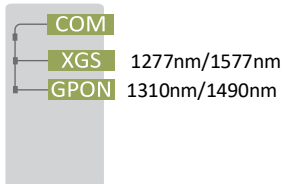
- Customizable
- GPON, XGS-PON, NG-PON2
- 25G PON, 50G PON

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT		SPECIFICATION
APPLICATION	--		SINGLE FIBER BIDIRECTIONAL
OPERATING WAVELENGTH	nm		1260-1660
GPON (1310NM/1490NM)	nm		1290-1330 / 1480-1500
XGS-PON (1270NM/1577NM)	nm		1260-1280 / 1575-1580
NGP (NGPON PASS THRU)	nm		1520-1540 / 1594-1660
INSERTION LOSS	dB		1.3
ISOLATION	MAX.	dB	--
GPON (1310NM/1490NM)	MAX.	dB	>30
XGS-PON (1270NM/1577NM)	MAX.	dB	>30
NGP	MAX.	dB	>15
INSERTION LOSS TEMP. SENSITIVITY	MAX.	dB	0.5
PASS BAND RIPPLE / DWDM	MAX.	dB	0.5
PDL /DWDM	MAX.	dB	0.15
PMD	MAX.	Ps	0.2
DIRECTIVITY	MIN.	dB	>50
RETURN LOSS	MIN.	dB	45
POWER HANDLING	MAX.	mW	300
FIBER TYPE	--		SMF 28e
DIMENSIONS (H X W X D): 3-PORT	mm		60 x 62 x 14
DIMENSIONS (H X W X D): 4-PORT	mm		60 x 75 x 14
OPERATING TEMPERATURE	°C		-40 ~ +85
STORAGE TEMPERATURE	°C		-40 ~ +85
CONNECTOR TYPE	/		LC/UPC, SC/APC, LC/APC

LOGICAL DIAGRAMS

The logical diagrams below represent the filters included in the ordering information table below. Custom CE modules can be configured in a way that best fits your application.



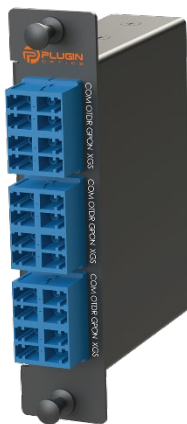
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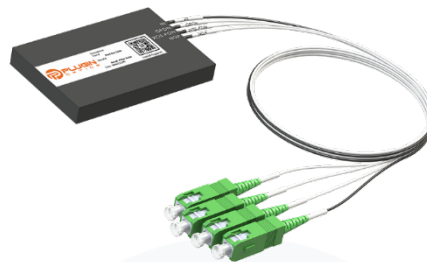
PLO-MFFT-01W4-SA

ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
PLO-MFFT-01W3-SA	COEXISTENCE MODULE, ALM BOX, FWD, SF, 1 CIRCUIT, GPON (1310NM/1490NM), XGS-PON (1270NM/1577NM), SC-APC FEMALE, 60X62X14MM BOX
PLO-MFFT-01W4-SA	COEXISTENCE MODULE, ALM BOX, FWD, SF, 1 CIRCUIT, GPON (1310NM/1490NM), XGS-PON (1270NM/1577NM), NGP (1520-1540NM/1594-1660NM), SC-APC FEMALE, 60X75X14MM BOX

Plugin Optics offers CE modules in LGX, ABS Pigtailed and Universal NID box form factors. CE modules are customizable, can be built and deployed very quickly, and available in many different variations covering just about any single mode wavelength application you may have.



LGX Based CEM with
LC-UPC Connectors



Pigtail CEM Module



Universal NID Box CEM
with SC-APC Connectors