

WAVELENGTH TUNABLE 1.2 GHz OT XFP DWDM TRANSMITTER 0 XFP DWDM

PRODUCT FEATURES

- DOCSIS 3.1 compatible with operating bandwidth up to 1218 MHz
- XFP Form Factor
- All-Digital 256 QAM loading up to 154 carriers
- Externally modulated, no dispersion compensation required
- Wavelength-Tunability across entire C-band at 100 GHz spacing
- Link distances up to 60 km
- LC/APC optical connection
- Power consumption < 3.5 W
- Built-in digital diagnostic functions
- Compliant with SCTE 195 2013

APPLICATIONS

- Hybrid Fibre Coaxial (HFC) cable access networks
- 1550 nm Broadcast with DWDM Narrowcast overlay architectures
- All-Digital QAM networks



The DELTA XFP Transmitter is a pluggable optical module which can be fully loaded with 154 digital QAM channels. The external modulated XFP transmitter is in a very small package.

The small XFP module significantly increases the density and reduces power consumption for downstream transmitter which can be integrated into today's Hybrid-Fibre Coaxial (HFC) optical platforms and tomorrow's broadband infrastructure equipment.

The wavelength of the transmitter can be tuned by the user within 500 ms. Each DWDM wavelength within the C-band can be selected.

This increases operational efficiencies in deploying DWDM networks and reduces inventory of transmitters at different fixed wavelengths.

Wavelength-Tunability also opens the possibility of novel HFC architectures that can dynamically route services and increases bandwidth capacity in the cable operator's access network.

Type	Item No.	Description
OT XFP DWDM	57002688	XFP-RF Pluggable TX-Module, Wavelength-Tunable, QAM, +1.2GHz, +5 dBm, 43 DWDM
OT XFP DWDM-8	57002919	XFP-RF Pluggable TX-Module, Wavelength-Tunable, QAM, +1.2GHz, +5 dBm, 8 DWDM
OT XFP DWDM-F ITU 27	57003382	XFP-RF Pluggable TX-Module, fixed wavelength ITU 27, +1.2GHz, +5 dBm
OT XFP DWDM-F ITU 29	57003361	XFP-RF Pluggable TX-Module, fixed wavelength ITU 29, +1.2GHz, +5 dBm
OT XFP DWDM-F ITU 31	57003362	XFP-RF Pluggable TX-Module, fixed wavelength ITU 31, +1.2GHz, +5 dBm
OT XFP DWDM-F ITU 33	57003383	XFP-RF Pluggable TX-Module, fixed wavelength ITU 33, +1.2GHz, +5 dBm
OT XFP DWDM-F ITU 35	57003384	XFP-RF Pluggable TX-Module, fixed wavelength ITU 35, +1.2GHz, +5 dBm
OT XFP DWDM-F ITU 37	57003385	XFP-RF Pluggable TX-Module, fixed wavelength ITU 37, +1.2GHz, +5 dBm
OT XFP DWDM-F ITU 39	57003386	XFP-RF Pluggable TX-Module, fixed wavelength ITU 39, +1.2GHz, +5 dBm
OT XFP DWDM-F ITU 41	57003387	XFP-RF Pluggable TX-Module, fixed wavelength ITU 41, +1.2GHz, +5 dBm

TECHNICAL SPECIFICATIONS

Type		Min.	Typ.	Max.	Ref.
Optical Output Power 9/125 SMF	dBm	4.75		5.75	
Optical Wavelength Range	nm	1529.55		1563.05	
Optical Wavelength Spacing	GHz		100		1
Transmitter Center Wavelength – Beginning of Life	pm	X-25	X	X+25	2
Transmitter Center Wavelength – End of Life	pm	X-100	X	X+100	2
Wavelength Tuning Time	seconds		0.5	3.0	
SBS Suppression	dBm		+13		3

Notes:

1. Corresponds to approximately 0.8 nm
2. X= Specified ITU Grid Wavelength. Wavelength stability is achieved within 10 seconds of power up
3. SBS suppression measured with the following link: Transmitter through EDFA, launch power of +13 dBm, 20 km of fibre, 0 dBm input power into receiver. Transmitter loaded with 153 channels of QAM.