

## WAVELENGTH TUNABLE OT XFP DWDM TRANSMITTER

### PRODUCT FEATURES

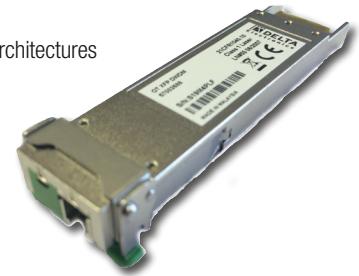
- DOCSIS 3.1 compatible with operating bandwidth up to 1218 MHz
- XFP form factor
- All-Digital 256 QAM loading up to 154 carriers
- Externally modulated, no dispersion compensation required
- SBS up to 20 dBm
- ITU channels adjustable at 100 GHz intervals (on request)
- Link distances up to 60 km
- LC/PC optical connection
- Power consumption < 3.5 W
- Built-in digital diagnostic functions
- Compliant with SCTE 195 2013

The DELTA Electronics 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.

### APPLICATIONS

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



The wavelength of the transmitter can be tuned by the user within 500 ms. For this purpose there are up to 43 (on request) different Dense Wavelength Division Multiplexing wavelengths available. within the entire C-band.

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 1550 05 PC	57004451	XFP-RF TX-Module, Broadcast 1550nm, 1.2GHz, +5dBm, SBS max. 17 dBm, LC/PC
OT XFP DWDM PC	57004453	XFP-RF TX-Module, tunable wavelengths (ITU Grid), 1.2GHz, +4 dBm, LC/PC

## TECHNICAL SPECIFICATIONS

Type		Min.	Typ.	Max.	Ref.
Optical output power 9/125 SMF	dBm	6	7	8	
Optical wavelength range	nm	1529.55		1563.05	1
Optical wavelength spacing	GHz		100		2
RF input level	dBm	83		105	
Wavelength tuning time	seconds		0.5	3.0	
SBS suppression	dBm	13		20	3

Notes:

1. 57004453 ITU channel 21,22,24,26,28,33,36,39
2. Corresponds to approximately 0.8 nm
3. SBS suppression Item No. 57004451 fixed wavelength max. 17 dBm, Item No. 57004453 tuneable wavelength max. 14 dBm