

## 0 XFP TRANSMITTER 1550 nm

### PRODUCT FEATURES

- DOCSIS 3.1 compatible with operating bandwidth up to 1218 MHz
- XFP form factor
- Direct modulated
- Transmission of up to 79 analogue plus 75 QAM channels
- Link distance of up to 35 km without optical amplification
- +9 dBm optical output Power
- LC/APC optical connection
- Power consumption < 3.5W
- Built- in digital diagnostic functions
- Compliant with SCTE 195 2013

DELTA Electronics's XFP Transmitter is a pluggable optical module which can be fully loaded with 79 analogue AM-VSB channels plus 75 Digital QAM channels.

The direct 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
- Transmission of broadcast services
- RFoG technology



The OT XFP 1550 09 transmitter modules can complement or replace today's legacy 1310 nm and 1550 nm broadcast transmitters.

Since the wavelength is at 1550 nm, the optical signal can be multiplexed with a legacy 1310 nm optical signal to cost-effectively double the capacity of the fibre to the nodes.

Due to lower fibre loss at 1550 nm, the 9 dBm transmitter can transport signals to a node over fibre up to 35 km regardless of optical dispersion thanks to the modern integrated external modulation technology.

Type	Item No.	Description
OT XFP DM 1550 09	57004242	XFP-RF TX-Module, direct modulated, Broadcast 1550nm, 1.2GHz, +9 dBm, LC/APC

## TECHNICAL SPECIFICATIONS

Type		Min.	Typ.	Max.	Ref.
<b>Optical</b>					
OT XFP DM 1550 09	dBm	8.5		9.5	
Optical wavelength range	nm	1550		1558	
SBS suppression					
through 20 km of fibre	dBm			+14	1
through 40 km of fibre	dBm			+11	2
<b>Electrical</b>					
RF input level	dBμV	88	92	110	
Operating mode					AGC / MGC
MGC tuning range		-3		+3	

Notes:

1. SBS suppression measured with the following link: transmitter through EDFA, launch power of +14 dBm, 20 km of fibre, 0 dBm input power into receiver
2. SBS suppression measured with the following link: transmitter through EDFA, launch power of +11 dBm, 40 km of fibre, -1 dBm input power into receiver.