

## 0 XFP TRANSMITTER 1310 nm

### PRODUCT FEATURES

- DOCSIS 3.1 compatible with operating bandwidth up to 1218 MHz
- XFP form factor
- Direct modulated, no dispersion compensation required
- Transmission of up to 79 analogue plus 75 QAM channels
- Link distance of up to 35 km without optical amplification
- Transmitter version with +9 or +12 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 1310 09	57004245	XFP-RF TX-Module, direct modulated, Broadcast 1310nm, 1.2GHz, +9dBm, LC/APC
OT XFP DM 1310 12	57004246	XFP-RF TX-Module, direct modulated, Broadcast 1310nm, 1.2GHz, +12dBm, LC/APC

## TECHNICAL SPECIFICATIONS

Type		Min.	Typ.	Max.	Ref.
<b>Optical</b>					
Optical output level	dBm	8.5	9/12	12.5	
Optical wavelength range	nm	-3	1310	+3	
<b>Electrical</b>					
RF input level	dBμV	88		110	
Operating mode			92		
MGC tuning range		-3		+3	AGC / MGC