

TV+FI SAT optical transmitter

FTD-420

Solution for the distribution of analogue and digital terrestrial and satellite TV signals in communal installations.

FEATURES

- 1 TV input 45–862 MHz, 1 Sat-IF input 950–2150 MHz, 1 optical output 1310 nm
- Single-mode fibre optic connection.
- Solution for the distribution of analogue and digital terrestrial TV and satellite IF signals in large communal installations: residential estates, shopping centres, hotels, hospitals.
- 4 mW DFB (Distributed Feedback) ultralinear laser, with automatic power control (APC).
- Fully compatible with PAL, SECAM, NTSC, FM, DVB-S, DVB-T, DVB-C and other standards.
- Separate TV and FM channels with high RF amplification gain.
- Independent OMI (Optical Modulation Index) settings for TV and IF.
- +12 VDC power supply from a CFP module.
- Mounting on ClassA headend support bases or rack mount.



MODEL		FTD-420
Reference		4915
Optical output power	mW	4 (=6 dBm)
RF inputs		2 TV (45–862 MHz); IF (950–2150 MHz)
Optical section		
Wavelength	nm	1310 (±20)
Relative of laser noise (RIN)	dB/Hz	< -150
Optical output return loss	dB	> 50
Optical output connector		SC/APC 8°
RF section		
TV input level (for IMO 4%, 42 CENELEC ports)	dBμV	72 – 87
IF input level (for IMO 1.6%)	dBμV	72 – 87
In-band ripple	dB	±0.75 (TV), ±1 (IF)
OMI-TV laser input TV level adjustment	dB	-15 – 0
OMI-FI laser TV input level adjustment	dB	-15 – 0
OMI-TV adjustment test		Yes (indirect reading from RF level measurement)
OMI-FI adjustment test		Yes (indirect reading from RF level measurement)
Input impedance	Ω	75
Input return loss	dB	> 12 (TV), > 10 (FI)
General		
TV and IF input connectors		F
OMI-TV and OMI-FI test port connectors		F
Power supply		+12 Vdc/650 mA
Power connectors		banana socket
Dimensions	mm	230 x 195 x 32