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Fiber4Sat: DWDM Optical Transmitter 1550.12 / 1550.92 / 1551.72 / 1552.52

Four satellites and the whole DTT over a single optical fiber

Transmitter. The device receives the signal from 4 optical LNBs and distributes it, over a single optical fiber, to the different users, using the DWDM transmission technique.

Ref.237901

Art.Nr

O4S

EAN13

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Highlights

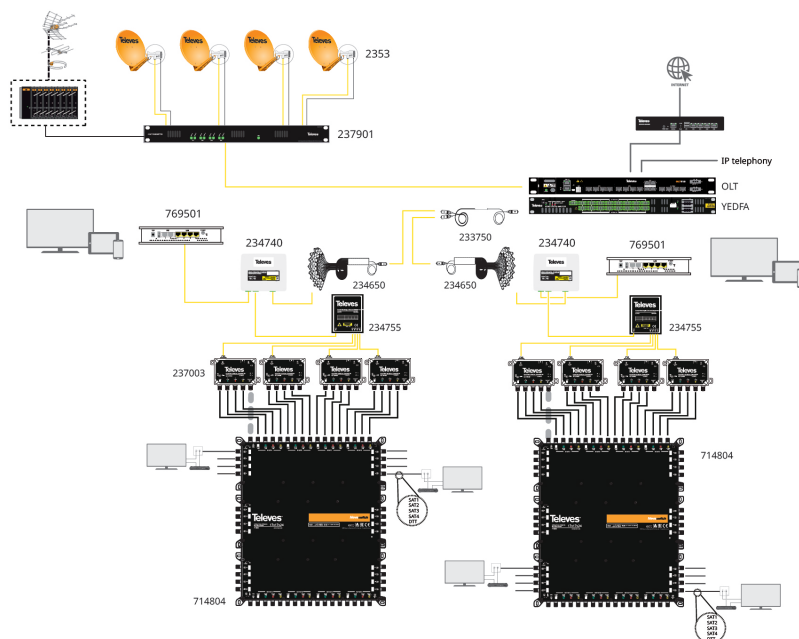
- 4 Satellites + DTT/QAM
- 16 Polarities on a single fiber
- High allocation ratio:
 - Without optical amplification 1:32
 - With optical amplification 1:256
- Higher distribution distance
- Smaller signal losses
- Higher bandwidth
- GPON compatible
- Rack mounting
- Easy installation

Main features

- Four complete satellites + RF (DTT/QAM) over a single fiber
- DWDM based transmission (Dense Wavelength Division Multiplexing)
- All four polarities and bands available on each RF output
- Allows the powering of all 4 LNBs
- Compatible with GPON/RFoG deployments

Application example

(Click to see the picture)



Technical specifications

OPTICAL INPUTS		
Inputs number		4
Maximum optical power	dBm	+3
Power self-regulation range	dBm	-5...+3
Bandwidth		1100...1650
Optical connectors	type	SC/APC
OPTICAL OUTPUT		
Outputs number		1
Wavelengths at the output connector	nm	1550,12 (CH34) / 1550,92 (CH33) 1551,72 (CH32) / 1552,52 (CH31)
Optical power for each wavelength	dBm	9
Output optical connector	type	SC/APC
RF INPUT		
Connector	type	F
Impedance	Ohm	75
Bandwidth	MHz	47 - 862
Self-controlled input range	dBµV	75...90
GENERAL		
Voltage	Vac	110 - 230
Frequency	Hz	50/60
Maximum input power consumption (when powering 4 LNBS)	mA	700
Input voltage at F connectors for satellite power supply	Vdc	12
Maximum current in F connectors for satellite power	mA	450
Operating temperature	°C	-5 - 45
Protection index	PI	20