FOXCOM
Complete RF-2-Fiber Solutions

Chassis mount CATV/SMATV transmitter series

Features & Benefits:

- Processes AM/VSB, QAM or terrestial signals
- Guaranteed video quality required for HD reception
- Serves a full range of high performance CATV/SMATV applications
- WDM capability
- Options to support European or North American channel plans

Product Description

FOXCOM AL5T2 CATV/SMATV chassis mount transmitters process AM/VSB, 8VSB, QAM or terrestrial signals inputs from multiple current or planned sources. Using direct modulation, signal integrity is preserved, guaranteeing excellent video quality required for High Definition reception. The AL5T2 Series serves a full range of high performance CATV/SMATV applications cost effectively. A variety of lasers, output powers, wavelengths and options are available to maximum flexibility and scalability.

When coupled with Foxcom's FPS line of LGX style optical passive components, transmitter outputs may be split or multiple AL5T2 signal paths can be combined using Wave Division Multiplexing to make use of existing fiber infrastructure and ensure future expansion capability.

The AL5T2 CATV/SMATV transmitter module occupies two slots on the AL-500 19" 3U active shelf.

Specifications

	AL5T-[21/22]xxx
RF	
Operating Frequency Range [MHz]	
AL5T-21xxx	54 - 860
AL5T-22xxx	85 - 860
Optical Output Power [dBm] 1310	+11 / +12
Optical Output Power [dBm] 1550	+4 / +7
Number of channels	103 or 80
Typical RF Input Power [dBmV/channel]	25
Min. RF Input Power [dBmV/channel]	15
Max RF Input Power [dBmV/channel]	35
RF Input Slope [dB] [Maximum]	2
Flatness	±1
CNR [min. dBc]	51 (1)
CSO [min. dBc]	60 (1)
CTB [min. dBc]	64 (1)
RF Input Connector	F-female

	AL5T-[21/22]xxx
RF Input Return Loss [Min. dB]	12
Gain Control	Automatic
Optical Output	
Optical wavelengths [nm]	1310 / 1550
Output Optical Connector Type	SC/APC
Minimum Optical Output Return Loss [dB]	-50
General	
Power Connector	DB-9 male
Supply Voltage [VDC]	12 +/- 0.5
Typical current drain [mA]	480 [1400 mA] (2)
Operating Temperature [ºC]	0 - 50

Notes:

1. AL500 Measured @ +25 dBmV/ch. RFin, 3.5% OMI, 80 NTSC ch. plus 55 QAM ch. -6dB ref. analog ch. Popt in to RX min. -4 dBm

2. When the TEC [laser cooler] is drawing the maximum current

3. -4 dBm 1550 nm specifications are measured with a 10 TV channel loading

All specifications are subject to change without notice.

Ordering Information

	U.S. Frequencies
AL5T2 - 1 - 1310 - 1	CATV 54 - 860 MHz 1310nm +7dBmDFB transmitter
AL5T2 - 1 - 1310 - 2	CATV 54 - 860 MHz 1310nm +11dBmDFB transmitter
AL5T2 - 1 - 1310 - 3	CATV 54 - 860 MHz1310nm +12dBmDFB transmitter
AL5T2 - 1 - 1550 - 0	CATV 54 - 860 MHz 1550nm +4dBmDFB transmitter limited to 10 channels & 2Km
AL5T3 - 1 - 1550 - 1	CATV 54 - 860 MHz 1550nm +7dBmDFB transmitter limited to 2Km
	European Frequencies
AL5T2 - 2 - 1310 - 1	CATV 85 - 860 MHz 1310nm +7dBmDFB transmitter
AL5T2 - 2 - 1310 - 2	CATV 85 - 860 MHz 1310nm +11dBmDFB transmitter
AL5T2 - 2 - 1310 - 3	CATV 85 - 860 MHz 1310nm +12dBmDFB transmitter
AL5T2 - 2 - 1550 - 0	CATV 85 - 860 MHz 1550nm +4dBmDFB transmitter limited to 10 channels& 2Km
AL5T2 - 2 - 1550 - 1	CATV 85 - 860 MHz 1550nm +7dBmDFB transmitter limited to 2Km

Installation Guide

Averlux multipolarity fiber solutions