

AL5T2 CATV/SMATV Transmitters Series

Features & Benefits:

- Processes AM/VSB, 8VSB, QAM or terrestrial signal inputs
- Guaranteed video quality required for HD reception
- Serves a full range of high performance CATV/SMATV applications
- Maximum flexibility and scalability
- WDM capability



Product Description

BsmarTV AL5T2 CATV/SMATV transmitters process AM/VSB, 8VSB, QAM or terrestrial signals inputs from multiple current or planned sources. 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-50019" 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

AL5T-[21/22]xxx

Flatness	±1
CNR [min. dBc]	51 (1)
CSO [min. dBc]	60 (1)
CTB [min. dBc]	64 (1)
RF Input Connector	F-female
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 [°C]	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



A	CATV [MHz]	B	Laser Wavelength [nm]	C	Optical Output Power [dBm]	D	Custom product code
1	54-860 ¹	1310		0	4	XXX Designated code	
2	85-860 ²	1550		1	7		
				2	11		
				3	12		
	¹ N. America ² Rest of the World						

