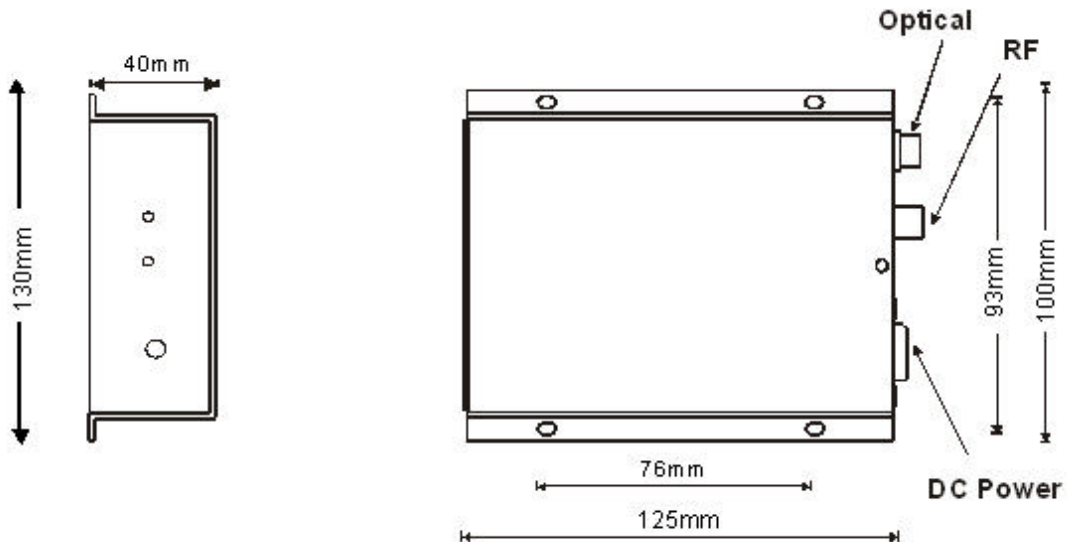


Series AL 120 Transmitters DBS/DTH L-Band



The AL 120 was designed to address the latest and future requirements of increasingly demanding DBS/DTH multi-band distribution needs. Modular and flexible, the AL 120 series can cost effectively process signals from a single LNB for the elimination of ineffective coax or the output from the latest frequency devices such as multi-polarity stackers with a bandwidth from 2 to 3500 MHz. A menu of various output powers, wavelengths and options are available to tailor your fiber distribution network for optimum performance. When coupled with Foxcom's FPS line of passive optical components, optical signals can be split and multiple AL 100 signal paths can be combined on a signal fiber using wave division multiplexing technology leveraging existing fiber infrastructure and insuring future expansion capability. The AL 120 series transmitter module occupy one slot in the AL 900-08 19" 3U active shelf.





	AL121	AL122	AL124	AL127
RF Input Specifications				
Operating Frequency Range (MHz)	950-2150	250-2150 MHz	250-3500	2-3500
Typical RF Input Power (dBm/transponder)	-45 (note 1)	-45 (note 1)	note 2	note 2
Minimum RF Input Power (dBm/transponder)	-55 (note 1)	-55 (note 1)	note 2	note 2
Max RF Input Power (dBm/transponder)	-35 (note 1)	-35 (note 1)	note 2	note 2
RF Input Slope (dB)	Flat	Flat	note 1	note 2
Flatness (dB per 24 MHz)	+/- 0.5	+/- 0.5	+/- 0.5	+/- 0.5
CNR (min. dBc) (note 3)	45	45	45	45
IMD (max. dBc) (note 3)	40	40	40	40
RF Input Connector	F-Female	F-Female	F-Female	F-Female
RF Input Impedance	75 Ohms	75 Ohms	75 Ohms	75 Ohms
RF Input Return Loss (Min. dB)	13	13	13	13
Gain Control	Manual	Manual	Manual	Manual
LNB Powering VDC (factory set option)	+ 13 +/- 1 350 mA max.	+ 13 +/- 1 VDC 350 mA max.	None	None
Optical Output Specifications				
Optical Wavelengths (nm)	1310	1310, 1550, 1470-1590 ITU Grid		
Optical Output Power (dBm)	-5, 0, +3	-3, 0, +3		
Output Optical Connector Type	SC/APC			
Minimum Optical Output Return Loss (dB)	50			
General Specifications				
Power Connector	DB-9 male			
Supply Voltage (VDC)	13/15 +/- 0.5			
Typical Current Draw (mA) (note 4)	200	200	200	200
Operating Temperature (°C)	0 to +50			

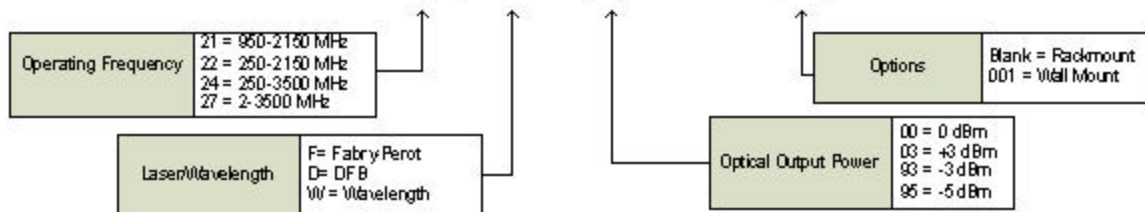
Notes:

- For AL121, 32 transponders, For AL122, 48 transponders
- For MFH-1 System: -37 dBm/tr. 249-434 MHz, -32 dBm/tr. 962-1423 MHz, -30 dBm/tr. 1534-1995 MHz, -25 dBm 2725-2894, -22 dBm/tr. 3015-3492 MHz
- Measured @ typical input, 1 db optical loss
- @ maximum RF input, rated Popt out @ 25°C and no LNB powering. LNB powering add 120 mA

AL 120 Series Ordering Information

Contact Foxcom Sales for Specific Information

AL 1XX - LWWWWW - PP - SC - 01 - 000



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