AverLuxPlus

AL5R Multipolarity Optical Receivers

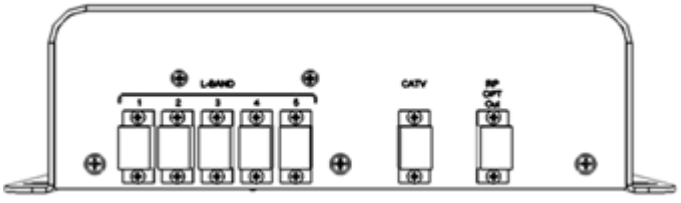
The **AL5R** Multipolarity Receivers can deliver **simultaneously**:

- Five L-band links
- One- or two-way CATV services
- Ethernet Data services

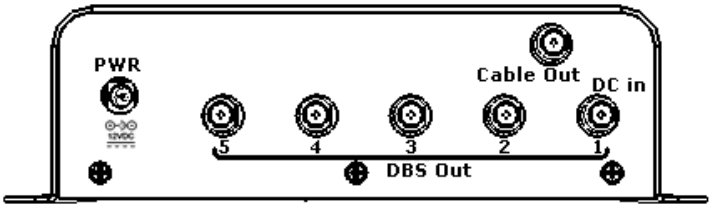
The **AL5R** series is powered by any of the AverLux 900 power adapter accessories or via remote DC powering over the DBS coax output.

The **AverLuxPlus AL5R Multipolarity Optical Receivers** complement the **AL5R** Optical Transmitters Series, completing the multipolarity optical broadband RF and Data video link by converting optical signals transparently to their original format - satellite QPSK/8PSK.

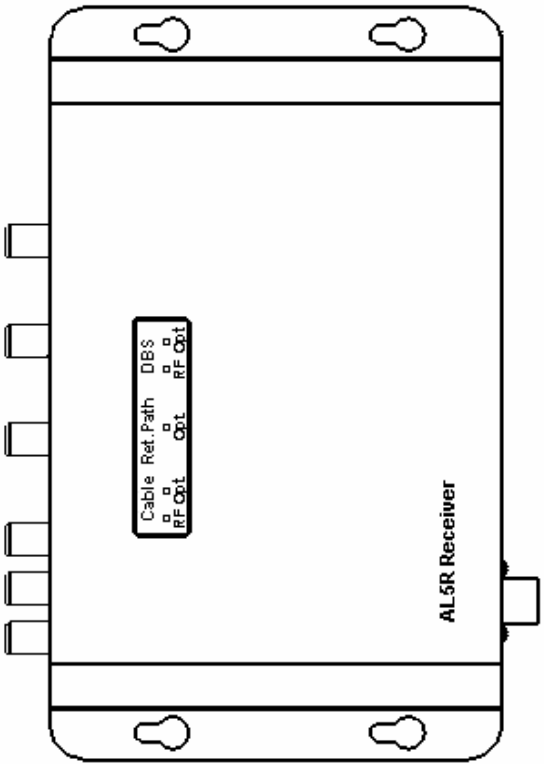
Available in a compact, wall mount enclosure, the receiver fits easily into any MDU distribution enclosures. Any standard home-run network can be supported from this fiber optic node onwards.



AL5R Multipolarity Receive: Bottom View



AL5R Multipolarity Receiver Multiple Wire: Top View



AL5R Multipolarity Receiver: Side View [Single fiber option]

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AL5R Multipolarity Optical Receivers Specifications

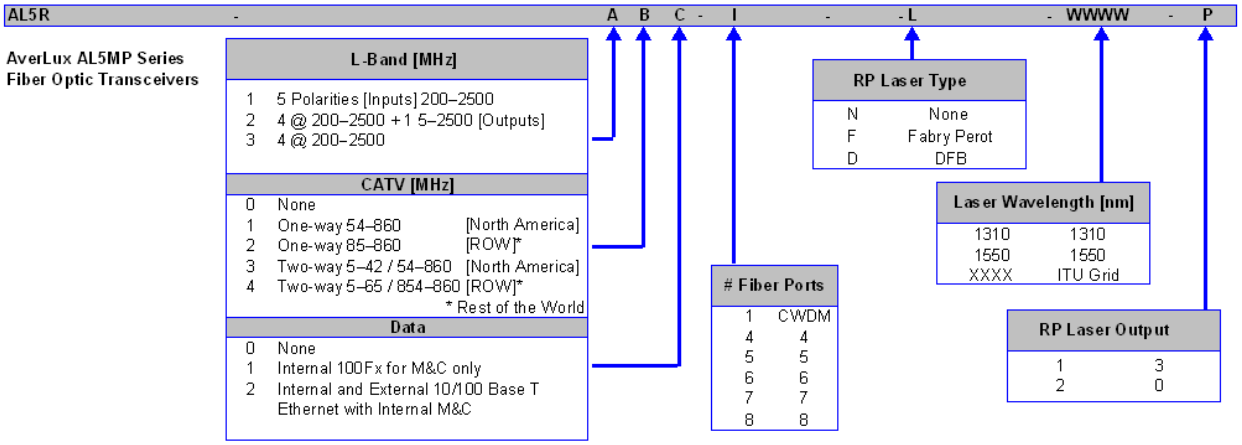
	AL5R-1*xxx*	AL5R-2*xxx*	AL5R-3xxx	AL5R-x5*xx*	AL5R-x6*xx*	Return Path Tx[1]
RF	**L-band base units**			**CATV options**		
Operating Frequency Range [MHz]	200 – 2500	5 – 2500 + 200 – 2500	200 – 2500	54 – 860	85 – 860	5 – 42 5 – 65
Number of Outputs	5	4 +1	4	1	1	1
RF Output Power [per output]	-15[2]	-15[2]	-15[2]	16 dBmV [3]	16 dBmV [3]	n/a
Flatness Full Band [dB]	+/-2	+/-2	+/-2	+/-1.5	+/-1.5	+/-0.25
Flatness [dB per 36 MHz]	+/- 0.5	+/- 0.5	+/- 0.5	n/a	n/a	n/a
IMD [max. dBc] [4]	40	40	40	n/a	n/a	n/a
CNR [min. dBc] [5]	40	40	40	47 [6]	47 [6]	n/a
CSO {max. dBc]	n/a	n/a	n/a	60	60	n/a
CTB {max. dBc]	n/a	n/a	n/a	60	60	n/a
RF Connector	F-female					
RF Output Return Loss [Min. dB]	10	10	10	12	12	
Laser Wavelength [nm] [1]	n/a			n/a		1310, 1550, ITU Grid
RP Laser Output [dBm] [1]	n/a			n/a		0, +3
Return Path Input Signal [1]	n/a			n/a		+20 dbmV
Optical Input						
Max. Optical Input Power [dBm]	-12			+1		n/a
Min. Optical Input Power [dBm]	-20			-4		n/a
Output Optical Connector Type	SC/APC					
Minimum Optical input Return Loss [dB]	50					
Optical wavelengths [nm]	1290 to 1610					
General						
Power Connector	2.1 mm coax plug, center positive					
Supply Voltage [VDC]	12					
Maximum Current Drain [mA]	750	750	750	950 [7]	950 [7]	1.05A [8]
Operating Temperature [°C]	-20 to + 50					
Dimensions [W × H × D] mm	210 × 57 × 125					

Notes:

1. Only applicable to Receiver with CATV Return Path option
2. RF Output @ -12 to -20 dBm optical input
3. RF Output @ -4 dBm optical @ 60 channels
4. Measure @ Popt in @ -12dBm
5. Measured @ typical input, 15 db optical loss
6. Measured @ -4 dBm optical input @ 60 NTSC channels @ 3.5% OMI
7. 200 mA above the L-Band current consumption
8. Total current drawn includes L-band and downstream CATV

[n/a not applicable]

Basic Ordering Information



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