



#### Configuration:

LA-141 ListenIR Expansion Radiator (For LT-84 only)

#### Product Overview:

The LA-141 Expansion Radiator (Pat. 9,712,246) from Listen Technologies expands on the functionality and coverage area of the LT-84 Infrared Transmitter/Radiator combo system, giving users and clients an uninterrupted, high-performance listening experience.

Up to four (4) LA-141 Expansion Radiators can be added to the LT-84 system, providing additional coverage up to 2,787 m<sup>2</sup> (30,000 ft<sup>2</sup>) with LR-4200-IR/LR-5200-IR receivers or 697 m<sup>2</sup> (7,500 ft<sup>2</sup>) with LR-42/LR-44 receivers in single-channel mode. A single CAT-5e cable provides both power and signal to the radiators, and the included mounting hardware and single-cable design make installation and setup a breeze.

#### Highlights:

- The only product of its kind that provides complete, gap-less coverage in small- to mid-size spaces
- Up to four radiators can be added to the LT-84 system providing additional coverage up to 2,787 m<sup>2</sup> (30,000 ft<sup>2</sup>)
- Single-cable CAT-5e provides power and audio signal for ease of setup
- Simple installation with the included mounting hardware

#### Includes:

One (1) LA-141 ListenIR Expansion Radiator  
One (1) 25 ft. (7.6 m) CAT-5e Cable  
One (1) LA-344 Flexible Mounting Hardware  
One (1) Quick Start Guide

Product Specification: ListenIR Expansion Radiator (For LT-84 only)	
Audio	
System Distortion	< 2% (THD) System Specification (wireless end-to-end with LR-44)
System Signal to Noise Ratio (A-Weighted)	> 60 dB (SNR) System Specification (wireless end-to-end with LR-44)
System Frequency Response	63 Hz - 15 kHz (+/- 3 dB) System Specification (wireless end-to-end with LR-44)
Controls	
Indicator Lights On/Off Switch	Two (2) position switch - Indicator Lights OFF, Indicator Lights ON
Delay Compensation	Four (4) position rotary switch setting (0, 1, 2, 3)
Indicators	
RJ-45 Amber LED	Solid Amber indicates carrier is present and IR is being transmitted
RJ-45 Green LED	Solid Green indicates power is applied to unit
RF	
Carrier Frequencies	2.3 MHz, 2.8 MHz, 3.3 MHz, 3.8 MHz
Number of Channels	Two (2) channels

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Power Save Mode	Carrier will shut off when no audio is present for 15 minutes on both channels to preserve radiator life.
Expansion Link Output	One (1) RJ-45 connector - Provides RF Signal and Power to one additional LA-141. CAT-5e cable 24 AWG, 100 ft. (30 m) maximum cable length, two (2) LA-141s per daisy chain (total daisy chain cannot extend beyond two expansion radiators)
Expansion Link Input	One (1) RJ-45 connector - Receives RF Signal and Power from LT-84
IR	
Coverage Area	30,000 ft <sup>2</sup> (2787 m <sup>2</sup> ) single channel with LR-4200-IR/LR-5200-IR receivers or 7,500 ft <sup>2</sup> (697 m <sup>2</sup> ) single channel with LR-42/LR-44 receivers
IR Emitter Power	1.49 W
Power	
Power Supply	12 VDC, Provided via LT-84 Expansion Link Output RJ-45s
Current Draw	600 mA per LA-141, maximum of two (2) LA-141s daisy chained with CAT-5e cable 24 AWG 100 ft. (30 m) to each LT-84 Expansion Link Output
Physical	
Color	Black with White Silk Screening
Shipping Weight	3.0 lbs. (1.4 kg)
Mounting	Can be mounted on a wall, ceiling, or table with provided hardware (screws and hollow wall anchors not provided). Optional LA-347 Wall Box Mounting Plate is available for mounting to a standard single gang electrical box.
Dimensions (H x W x D)	1.5 x 10.7 x 4.1 in. (3.81 x 27.2 x 10.5 cm)
Unit Weight	0.6 lbs. (0.3 kg)
Environmental	
Temperature - Operation	14 °F (-10 °C) to +104 °F (40 °C)
Temperature - Storage	-4 °F (-20 °C) to +122 °F (50 °C)
Relative Humidity	0 to 95% relative humidity, non-condensing
Compliance	
Standards	FCC Part 15, ICS-03, CE, UL, CUL, C-Tick, CCC, PSE, KC, GS, RoHS, WEEE