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

Product Overview:

The LA-141 ListenIR Expansion Radiator is part of the most advanced, lowest cost IR solution available.

The LA-141 can be added to the LT-84 ListenIR Transmitter/Radiator Combo for additional coverage of up to 30,000 ft² (2787 m²) with LR-4200-IR/LR-5200-IR receivers or 7,500 ft² (697 m²) with LR-42/LR-44 receivers in single channel mode, when mounted within 100 ft. (30.48 m) of cable length from the LT-84. Up to four (4) Expansion Radiators (LA-141) can be daisy chained to an LT-84 system.

A single CAT-5e cable carries both power and signal to the Expansion Radiators (LA-141) making it a true one-cable connection. Placing additional Expansion Radiators (LA-141) in the same room increases the overall coverage area and enhances the freedom of movement within the room. The included mounting hardware allows the LA-141 to be easily mounted to the wall, ceiling or table.

Highlights:

- Use up to four (4) LA-141 to expand the coverage area.
- The only product of its kind that provides complete, gap-less coverage in small-to-medium spaces.
- Easy installation with included mounting hardware and single Cat-5e cable for power and audio signal.

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

Architectural Specification:

The IR Expansion Radiator shall be capable of receiving four (4) mono carrier frequencies of; 2.3, 2.8, 3.3 and 3.8 MHz over a proprietary RJ-45 Expansion Link. The device shall be connected via a single CAT-5e cable (100 ft. (30 m) maximum) providing power and RF signal. The Expansion Radiator coverage area shall be up to 30,000 ft² (2787 m²) with LR-4200-IR/LR-5200-IR receivers or 7,500 ft² (697 m²) with LR-42/LR-44 receivers in single channel mode. The device shall deactivate the IR emitting LEDs after 15 minutes if no audio is present. When connected to a Trans-Radiator the device shall have a system audio performance of 60 dB SNR or better, THD of less than 2% and a frequency response of 63 Hz to 15 kHz, +/- 3db. The Expansion Radiator shall have an Expansion in and out RJ-45 connection allowing an additional Expansion Radiator to be connected (two per daisy chain, two daisy chains per Trans-Radiator) for up to four (4) Expansion Radiators in a system. The Expansion radiator shall provide delay compensation via two (2) rotary four (4) position switches for up to two (2) audio channels. The LA-141 is specified.

Product Specification:ListenIR Expansion Radiator (For LT-84 only)	
Audio	
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)
System Distortion	<2% (THD) 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

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)
Power Save Mode	Carrier will shut off when no audio is present for 15 minutes on both channels to preserve radiator life.
Number of Channels	Two (2) channels
Expansion Link Input	One (1) RJ-45 connector - Receives RF Signal and Power from LT-84
IR	
Coverage Area	30,000 ft² (2787 m²) single channel with LR-4200-IR/LR-5200-IR receivers or 7,500 ft² (697 m²) 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	
Shipping Weight	3.0 lbs. (1.4 kg)
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)
Color	Black with White Silk Screening
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.
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