

# Unication One-Way Signal Booster

Booster Designed for Public Safety



## One-Way Signal Booster

**Boosts ALL Public Safety Bands:**

*VHF, UHF and 700-800MHz*

**Supports Multiple System Types:**

*Analog 2-Tone, P25 Conventional & P25 Trunking*

**Powerful & Cost-Effective Solution**

*Delivers Crucial In Building Signal Coverage*

**Works on Voice Pagers & Radio Devices**

**Ease & Convenience of User Installation**



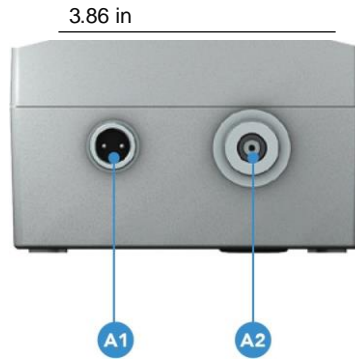
**Unication USA**  
Phone: (817) 303-9320  
Email: [Info@Unication.com](mailto:Info@Unication.com)  
[www.Unication.com](http://www.Unication.com)

# Introduction: One-Way Signal Booster

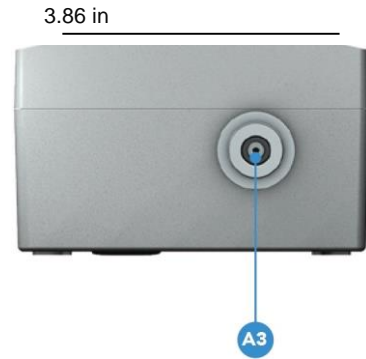
• TOP View



• Front View



• Back View



## A: Interface

A1 Power Input

A2 Output after the signal amplified

A3 Input prior to the signal amplified

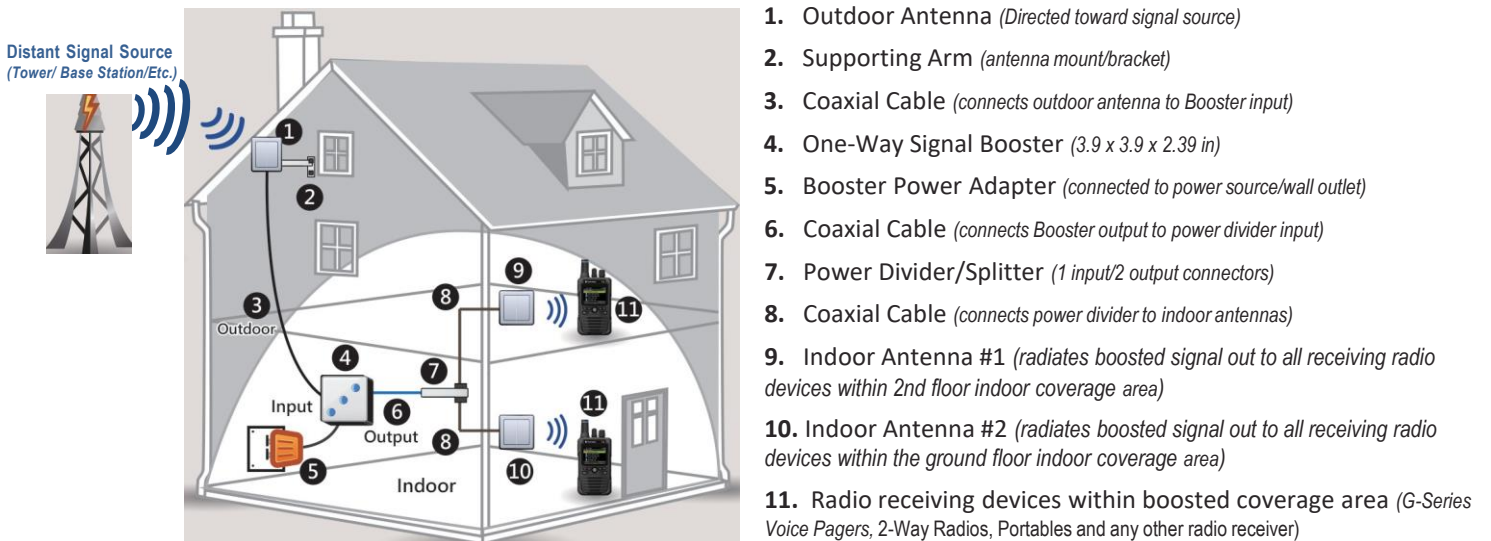
## B: LED Indicator

B1 Signal indicator

B2 Power Indicator

## One-Way Booster System Integration Diagram:

In the example diagram below, the One-Way Signal Booster uses a co-axial power divider to direct output (2) two separate indoor antennas which are installed on the first and second floors to provide an expanded coverage area throughout the two-story structure.



NOTE: Adequate signal must be available outside the structure to achieve in-building coverage.

# Technical Specifications

Product Specifications		
Product Name	One-Way Signal Booster	
System Protocols Supported	Analog 2-Tone, P25 Conventional, P25 Phase I, P25 Phase II	
Frequency Ranges	<b>VHF/UHF:</b> 136-174MHz & UHF 400-520MHz <b>700/800:</b> 763-776MHz, 794-806MHz, 851-870MHz, 806-824MHz <b>700:</b> 763-776MHz, 794-806MHz, <b>800:</b> 851-870MHz, 806-824MHz	
Largest Gain	78 dB	
Environment and Temperature for the Device		
Device Temperature	-22°F - +158°F	
Hardware Specifications		
Shell Material	Aluminum Alloy	
Weight (w/o accessories)	580 g	
Dimensions (Inc. Cable Connector)	Height (Unit: mm)	135 mm
	Width (Unit: mm)	98 mm
	Thickness (Unit: mm)	60 mm
Optional Accessories	Omni-Directional Indoor Antenna	+2 dBi
	Yagi 18dB Gain External Antenna	+18 dBi
	LMR400 RF Coaxial Cable (10 meter)	Cable Loss 3 dB
	Antenna Bracket	243 mm* 60.30 mm* 25.14 mm
	Power Divider	97 mm * 110 mm * 51 mm
Device Capabilities	Gain Switching	Yes
	Frequency Band Switching	Yes
Characteristics and Specifications		
Gain Settings	Manually set as High Gain or Low Gain	High Gain: 78 dB Low Gain: 60 dB
Automatic Gain Control (AGC)		30 dB
Noise Figure		<4 dB
Booster Connector		N-Female Coax
Impedance		50 Ohm
Connection Type		Coax
Recommended Cable		LMR400 Coax or equivalent



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**Rugged. Reliable. Built to LAST.**

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