



Unication Booster

Booster for Public Safety



Please contact us with our Toll Free phone number : 888-657-2963

Leave a message on the Unication Website : <http://www.unication.com> or <http://www.unicationusa.com>

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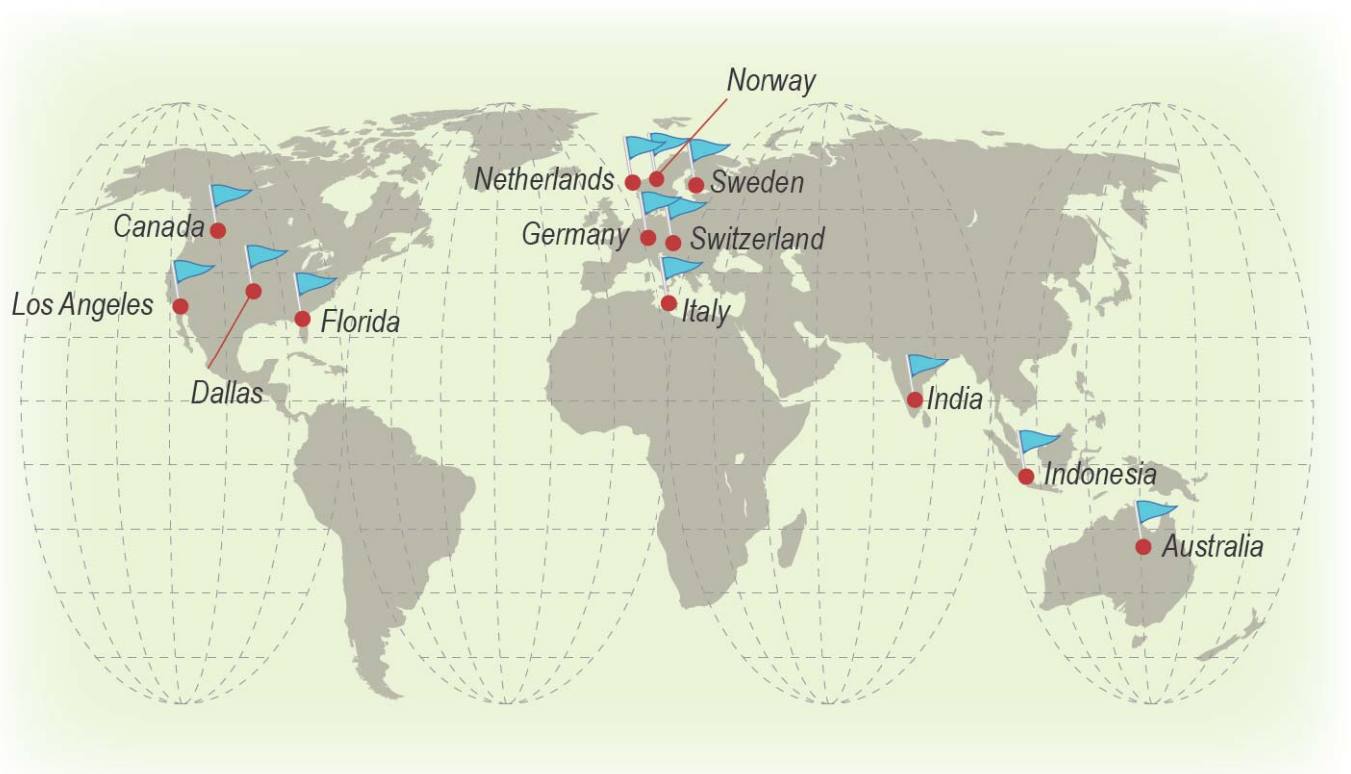
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■ What is Unication ?

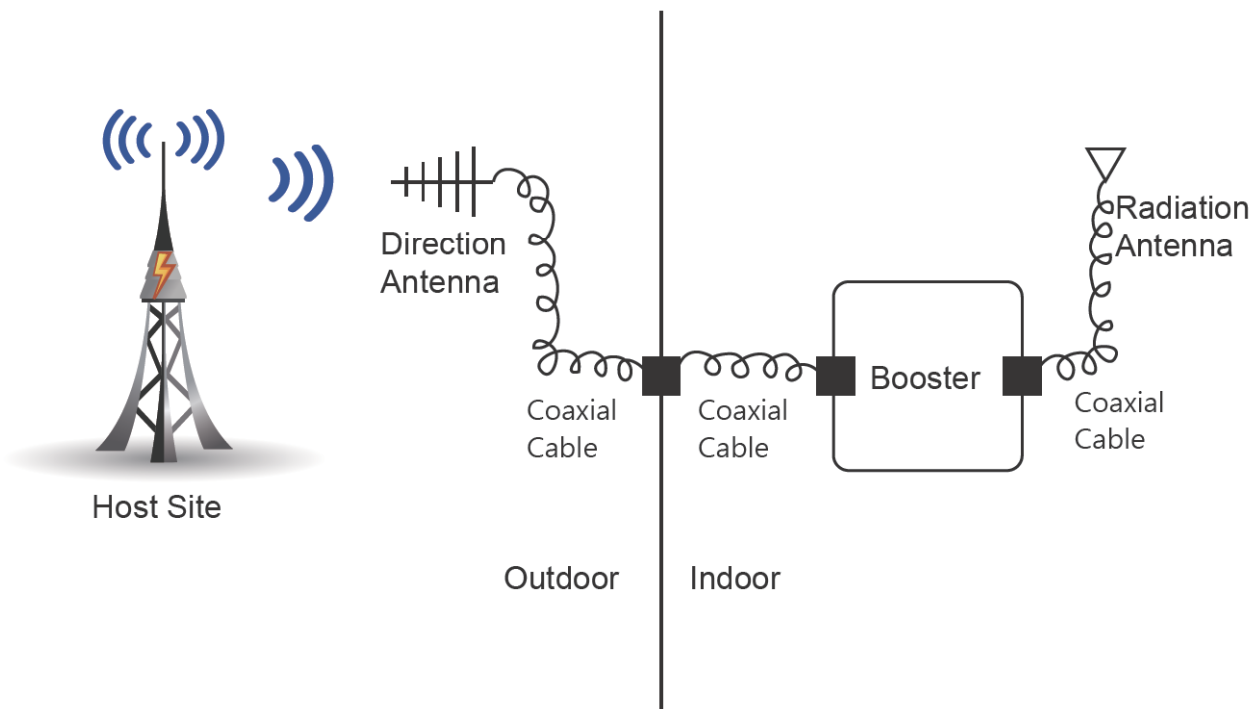
- Unication Co., Ltd was originally founded in 1992 and has 27 years' experience with designing and manufacturing advanced critical communication solutions and systems. The innovation and advancement of Unction's professional radio communications products is the main spindle of the brand's development.
- Unication currently has independent design centers or sales companies in Los Angeles, Dallas, Florida, Poca Reyton, Canada, Australia, and Germany.
- As of now, Unication radio products have been sold to the United States / Canada, the Netherlands, Norway, Sweden, Switzerland, Australia, Italy, India, Indonesia and Middle East countries



■ Design Concept of Unication Booster :

- The signal of the current 700/800 MHz Trunk System faces in-building coverage issues, and will decrease 20-30 dB intensity when going through a building. This can cause G4/G5 users to not receive the signal while in building.
- Since many G4/G5 users require 24 hour standby, it is imperative that they can receive the signal of the Trunk System at all times. When in building coverage issues cause a weak signal zone in a user's house, work or other locations they cannot receive the signal. Unication has developed the Booster product as a solution to this problem. The Booster uses an outdoor antenna to receive the signal and amplifies it, then the indoor antenna transmits the signal to the user's G4/G5 device in order to allow users to receive the signal like normal, even when in a house or building with weak signal strength.

• The System Block Diagram Concept



figa : The System Block Diagram

■ Feature of Unication Booster :

- **Convenient for installation, Users can install in their house by themselves :**

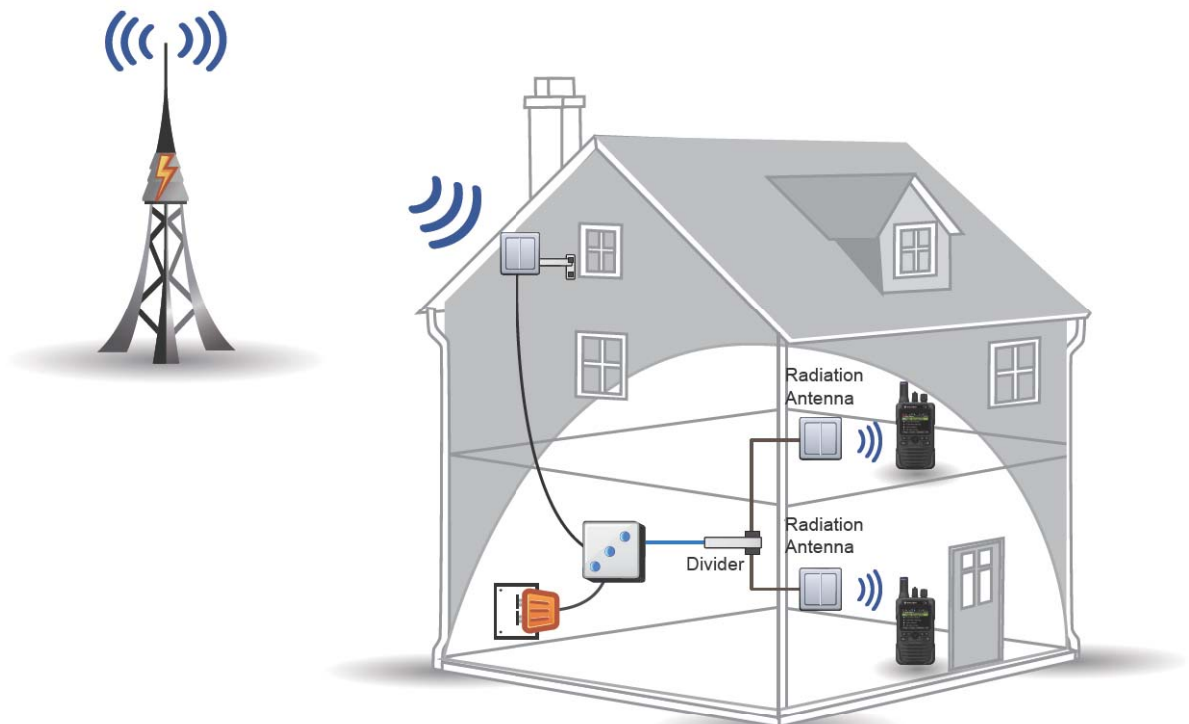
The product contains the materials needed. Users can install the indoor and outdoor antennas, and the Booster host.

- **The gain can be adjusted, and the user can adjust the signal amplification gain according to the required coverage range :**

Users can adjust the Booster signal amplification gain according to the indoor coverage range required by the user. When the users can not receive the signal in their house or office and need a larger coverage area, they can reach it by just turning the power switch from low to high power.

- **The coverage area can be enlarged. Customers can purchase the divider and antenna to connect with the booster for exporting the signal in order to increase the coverage area in the house :**

Once the user's indoor space is large, the needed area cannot be covered even if turning the amplification gain of the Booster signal to high power. Customers can purchase the divider, cable and another antenna. Users can set the antenna at the position needed to reach the purpose that enlarging the coverage area.



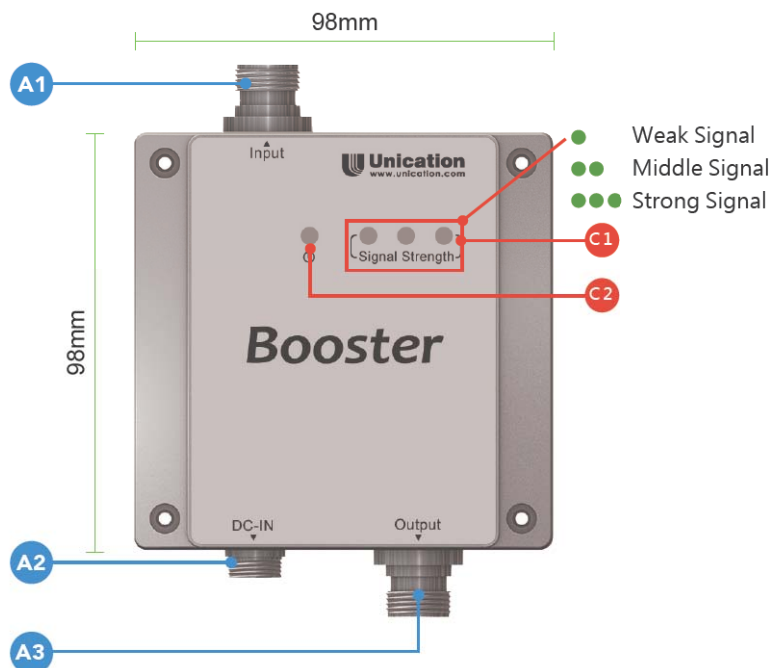
■ Specification and Function of Unication Booster :

● Appearance Introduction of Unication Booster :

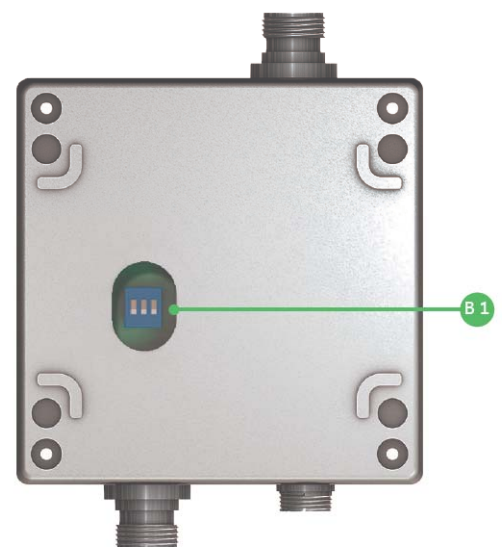
● Back View



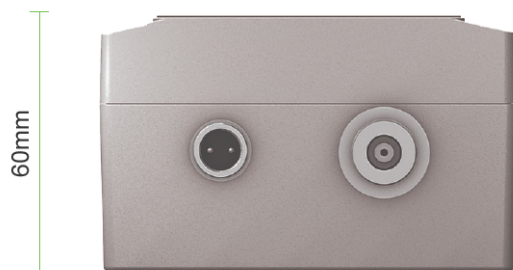
● TOP View



● Bottom View



● Front View



A : Interface						B : Gain Switching		C : LED Indicator	
A1	Output after the signal amplified	A2	Power Input	A3	Input prior to the signal amplified	B1	Gain switch	C1	Signal indicator
								C2	Power Indicator

PART.D Specification and Function of Unication Booster

■ Product number			Booster
■ Model number supported by this product			150.05-173.4MHz, 758-775MHz, 851-862MHz. 700/800 MHz
A The frequency and mode supported by this product when compatible with the G series.			
A1	Frequency range for this model (Unit: MHz)	700/800 : DL : 763-776 UL : 794-806 DL : 851-870 UL : 806-824 700 : DL : 763-776 UL : 794-806 800 : DL : 851-870 UL : 806-824	●
A2	The largest gain of this model	78 dB	●
B Environment and temperature for the device			
B1	Environment for the device	temperature for the device	-30°C ~ +70°C
C Hardware Specification for the device			
C1	Appearance of the device		Please see page 4
C2	Dimensions (With cable connector)	Height (Unit: mm)	135mm
		Width (Unit: mm)	98mm
		Thickness (Unit: mm)	60mm
C3	Shell Material		Aluminum alloy
C4	Weight (without an antenna and a cable)		≤ 580 g
C5	Hardware device of user interference	Gain Switching	●
		Frequency Band Switch	●
D characteristic and specifications			
D1	Gain	Users can set the gain manually, and the gain can be set as the high Gain or the low Gain.	High Gain: 78 dB Low Gain: 60 dB
D2	Automatic Gain Control (AGC)		30dB
D3	Noise Figure		<4dB
D4	RF Connectors : N Type Male 50 Ohm		N Type Male 50 Ohm
E Feature			
E1	Gain -adjustable	Users can set the gain manually depends on the user's requirement.	●
E2	frequency -select	Users can select the frequency band manually as needed.	●
E3	Signal coverage expanding	Users can purchase the distributors and antennas to expand the signal coverage.	●

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC ID: LEA-BOOSTER

This device complies with Part 15, 90 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.