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IDEN MOBIL Bi-Directional Amplifier for In Vehicle Installation Guide

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Rev 1

MODEL: BD800NM
PART#: 804002

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Package Contents



Bi-Directional
Amplifier/Repeater



12V DC
Power Supply
(Cig. Lighter Plug Included)



Stealth
Antenna
(Coax Included)

Pictures are not to scale

Outside Antenna Options

(Outside Antenna Not Included)



Mini
Glass



Mini
Magnet



Magnet
Mount



Glass
Mount



NMO
Mount



Trucker

Pictures are not to scale - Not All Outside Antenna Options Are Shown

1. PURPOSE OF THE IDEN

The IDEN Bi-Directional Amplifier greatly improves RF coverage for areas in which low signal strength or no signal is a problem when using your portable iDEN phone inside the car.

2. HOW THE IDEN FUNCTIONS

The signal is received by the outside antenna from the cell site. It is then AMPLIFIED/REPEATED and transmitted to your iDEN phone through the inside antenna. When the phone transmits it is received by the inside antenna. It is then AMPLIFIED/REPEATED and transmitted to the cell site through the outside antenna.

3. FEATURES

Wireless Operation - No Physical Connection to Cellphone

The IDEN Amplifier greatly improves signal strength inside a vehicle without a physical connection to your phone. It also allows multiple phones to be used simultaneously.

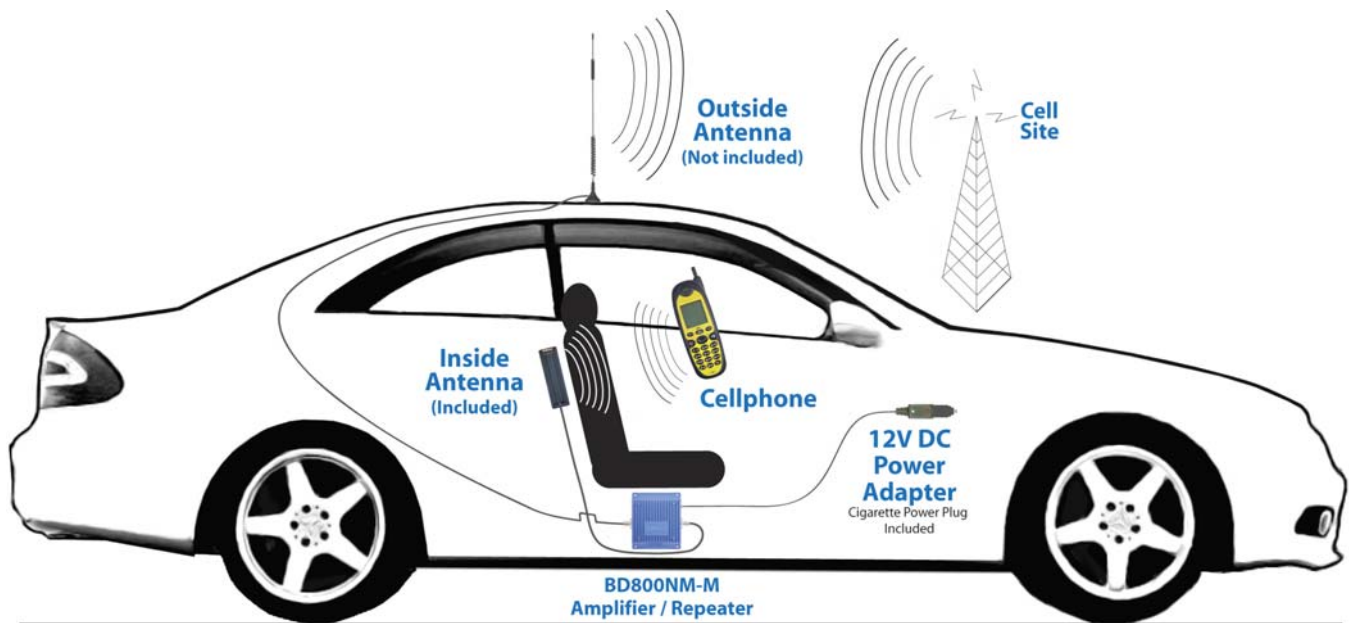
Advanced Electronics Receive & Transmit Better Than Your Cellphone

The Wilson Cellular Amplifier has a better receiver than what's in your cellphone. Its advanced electronics are very sensitive and able to receive small signals that would go undetected by most cellphones. It also has a better transmitter with double the power of your cellphone. This allows your voice to be heard by distant cell sites, increasing coverage up to 50 miles or more.

4. AMPLIFIER SPECIFICATIONS

Frequency.....	806-821 MHz Uplink	851-866 MHz Downlink
Gain.....	37dB Uplink	37dB Downlink
Flatness.....	+/- 3dB Uplink	+/- 3dB Downlink
Max RF Output Power.....	+31dBm Uplink	+15dBm Downlink
Noise Figure.....	5dB Uplink	5dB Downlink
Uplink Downlink Isolation.....	More than 90dB	
Power Consumption.....	12V, 1.5A	
Connecter.....	FME-Male 50 Ohms	
Dimensions.....	5.5 x 4.3 x 1.4 (inches) OR 14.0 x 10.8 x 3.5 (cm)	
Weight.....	1.32 pounds or 600 grams	
Model #.....	IDEN	
Part #.....	804002	

5. AMPLIFIER INSTALLATION (REFER TO ILLUSTRATION)



ILLUSTRATION

5.1 Mounting the Amplifier

5.1.1 Mount the AMPLIFIER under the dash or car seat.

NOTE: The amplifier should be mounted to the selected location using mounting screws. (Mounting screws not included.)

5.2 Installing the Outside Antenna (Sold Separately)

5.2.1 Select an outside mounting location. For best performance try to keep the antenna centered on the car's / truck's roof.

5.2.2 The outside antenna should be located in an area with at least a 12" radius clear of obstructions, and other radiating elements.

NOTE: When using a **magnet mount, NMO or trucker antenna**, keep the separation distance between the inside and outside antennas at least 4ft. When using a **glass mount antenna**, keep the separation distance between the inside and outside antennas at least 5ft.

WARNING: The outside antenna used with this amplifier must be mounted with a separation distance of at least 10 inches(25cm) from all persons and must not be co-located or operating in conjunction with any other antenna or amplifier.

5.2.3 Connect the Outside Antenna to the AMPLIFIER/ side labeled "OUTSIDE ANTENNA".

5.3 Installing the Inside Antenna (Included)

- 5.3.1 Connect the Inside Antenna to the side labeled “INSIDE ANTENNA” on the AMPLIFIER.
- 5.3.2 The Inside Antenna should be centered in the vehicle. It can be placed in the seat back between the seat cushion and fabric or in the vehicle headliner.

WARNING: The inside antenna used with this amplifier must be mounted with a separation distance of at least 8 inches(20cm) from all persons and must not be co-located or operating in conjunction with any other antenna or amplifier.

5.4 Connect the 12V Power Supply

- 5.4.1 Connect the large end of the 12V Power Supply into your cigarette lighter and the other end into the input on your amplifier labeled “DC 12V IN”.

7. TECH SUPPORT

If you need further assistance with your installation please call us Toll-Free at 866-294-1660 or send an E-mail to tech@wilsonelectronics.com

Our Hours of Operation are: 8:00 AM – 4:30 PM (Mountain Time)

8. NOTES & WARNINGS

NOTE: When using a magnet mount, NMO or trucker antenna, keep the separation distance between the inside and outside antennas at least 4ft. When using a glass mount antenna, keep the separation distance between the inside and outside antennas at least 5ft.

WARNING: The outside antenna used with this amplifier must be mounted with a separation distance of at least 8 inches(20cm) from all persons and must not be co-located or operating in conjunction with any other antenna or amplifier.

WARNING: The inside antenna used with this amplifier must be mounted with a separation distance of at least 10 inches(25cm) from all persons and must not be co-located or operating in conjunction with any other antenna or amplifier.