Wilson Electronics, Inc.
3301 E. Deseret Drive
St. George, Utah 84790
wilsonelectronics.com
cellular@wilsonelectronics.com
Phone 1-800-204-4104 Fax 1-435-656-2432

FCC Operational Description for the 801101:

The 801101 Bi-Directional Amplifier has 37dB of gain on the uplink (transmission to cell site 824-849MHz) and 37dB of gain on the downlink (receive from cell site 869-894MHz). The amplifier has no modulation circuitry. It is a linear Amplifier in both directions(RX and TX) and the modulation of the signal is controlled by the cell phone. The max uplink power is controlled by the received signal strength. The path loss from the cell phone to the inside antenna is usually equal to or greater then the gain of the amp thus allowing the cell phone to operate as if it was connected directly to the outside antenna.

Frequency	**824-849MHz Uplink 869-894MHz Downlink**
Gain (up/down)	**(37dB/37dB)**
Flatness (up/down)	**(+/- 3dB / +/-4dB)**
Max RF (up/down)	**(+34.5dBm/+15dBm)**
Noise Figure (down)	**(4.5dB)**
Isolation	**Uplink/Downlink More than 90dB**
Power Consumption	**12V, 1.5A**

The 801101Bi-directional Amplifier greatly improves RF coverage for areas in which low signal strength or no signal is a problem when using your portable cell phone inside the car.

The signal is received by the outside antenna from the cell site. It is then AMPLIFIED and transmitted to your cell phone through the inside antenna. When the phone transmits, the signal is received by the inside antenna. It is then AMPLIFIED and transmitted to the cell site through the outside antenna. The use of this amplifier requires no physical connection to the amplifier and will allow multiple users.