



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 801201:

The 801201 Bi-Directional Amplifier has 40 dB of gain on the uplink (transmission to cell site 824-849MHz & 1850-1910 MHz) and 40 dB of gain on the downlink (receive from cell site 869-894MHz & 1930-1990 MHz). 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 maximum 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 than the gain of the amplifier thus allowing the cell phone to operate as if it was connected directly to the outside antenna.

Frequency (uplink)	824-849MHz and 1850-1910 MHz
Frequency (downlink)	869-894 MHz and 1930-1990 MHz
Gain (up, down)	(40dB, 40dB)
Flatness (up, down)	(+/- 3dB, +/- 4dB)
Max RF (up, down)	(+34.5dBm , +15dBm)
Noise Figure (down)	3 dB
Isolation	Uplink/Downlink More than 90dB
Power Consumption	12V, 0.5 - 1.5A (dependent upon uplink power)

The 801201 Bi-directional Amplifier greatly improves RF coverage for areas in which low signal strength or no signal is a problem when using a 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 the 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.