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FCC Operational Description for the 811201:

The Direct Connection Bi-directional Amplifier (811201) improves RF coverage in areas with no signal or low signal strength.

When using 800 MHz the signal is received by the outside antenna from the cell site. The signal is then AMPLIFIED and sent into your phone through the adapter (sold separately). When the phone transmits, the signal is sent to the amplifier through the adapter then AMPLIFIED and transmitted to the cell site through the outside antenna. When using 1900MHz (PCS) the signal is received by the outside antenna from the cell site. The signal is then AMPLIFIED and sent into your phone through the adapter (sold separately). When the phone transmits, the signal is sent to the amplifier through the adapter then AMPLIFIED and transmitted to the cell site through the outside antenna.

The 811201 Bi-Directional Direct Connection Amplifier has a variable uplink gain to maintain the power control integrity of CDMA systems. The uplink gain is controlled by the cell site via the cell phone. The amplifier increases the dynamic range of the cell phone and has a better front end Noise Figure than the cell phone, thus increasing the cell phones coverage area and eliminating many dead spots and dropped calls. This amplifier is strictly a linear amplifier and does not modulate the input signal. All signal modulation is done by the cell phone.

AMPLIFIER SPECIFICATIONS

Connectors FME-Male 50 Ohms
 Dimensions 5.5x4.3x1.4 (inch) or 14.0x10.8x3.5 (cm)
 Weight 1.32 Pounds or 600G

PCS 1900 Specifications		AMPS Specifications
Frequency	1850-1910MHz Uplink 1930-1990MHz Downlink	824-849MHz Uplink 869-894MHz Downlink
Gain (up/down)	Cell Site Controlled-Max 11db/11db	Cell Site Controlled-Max 10db/10db
Flatness (up/down)	(+/-2dB / +/-2dB)	(+/-2dB / +/-3dB)
Max RF	(+33dBm / +15dBm)	(+35dBm / +15dBm)



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(up/down)		
Noise Figure (down)	(3.5dB nominal)	(3.5dB nominal)
Isolation	Uplink/Downlink 90dB	Uplink/Downlink 90dB
Power Consumption	1.5A@12V	1.5A@12V