

## **Picocell Amplifiers**

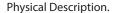
Wide Cellular Frequencies
15Watts thru 30Watts Pout

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Shireen, Inc. provides state of the art technology for full duplex cellular picocell amplifiers. The product line includes models covering 700, 850, 900, 1800, 1900, 2100MHz band with output power of 15 to 30 Watts.

The Shireen Pico Cell Amplifiers simultaneously add tx power to the uplink as well as rx gain to the downlink frequencies of a mobile base station. The units are directly connected to the Carrier or OEM BTS. The compact size and ease of installation make it ideal for use in rapid deployable small and micro cellular base stations. Applications exist in but are not limited to in-building/remote areas, Marine & Aviation, public spaces, disaster hit areas, Rural open spaces, Oil, Gas and Mining.

These Amplifiers have a full duplex operation, thus ensuring uninterrupted voice and data connections with the subscribers of the BTS.



As a Tower mounted amplifier, the product line is provided in a single pole mounted, fully weather conditioned enclosure with sealed watertight power connections. It is connected directly to the output of the BTS while utilizing localized power. The unit provides two inputs: 1 for Uplink Frequency and 1 for Downlink Frequency.

The amplified output is currently available as a single SISO antenna connector.



Band	Uplink (MHz)	Downlink (MHz)	Downlink Output Power	Downlink Power Gain	Uplink Power Gain	Uplink Noise Figure	Power Consumption @24V DC	RF Connections
1	1920~1980	2110~2170	30 Watt	24dB	33dB	<3dB	2A	Type N
2	1850~1910	1930~1990	15 Watt	23dB	33dB	<3dB	2A	Type N
3	1710~1785	1805~1880	15 Watt	23dB	33dB	<3dB	2A	Type N
4	1710~1755	2110~2155	15 Watt	23dB	33dB	<3dB	2A	Type N
5	824~849	869~894	30 Watt	24dB	33dB	<3dB	2A	Type N
8	880~915	925~960	30 Watt	24dB	33dB	<3dB	2A	Type N
13	777~787	746~756	30 Watt	24dB	33dB	<3dB	2A	Type N
14	788~798	758~768	30 Watt	24dB	33dB	<3dB	2A	Type N
	1 2 3 4 5 8 13	1 1920~1980 2 1850~1910 3 1710~1785 4 1710~1755 5 824~849 8 880~915 13 777~787	Band     Uplink (MHz)     (MHz)       1     1920~1980     2110~2170       2     1850~1910     1930~1990       3     1710~1785     1805~1880       4     1710~1755     2110~2155       5     824~849     869~894       8     880~915     925~960       13     777~787     746~756	Band         Uplink (MHz)         Downlink (MHz)         Output Power           1         1920~1980         2110~2170         30 Watt           2         1850~1910         1930~1990         15 Watt           3         1710~1785         1805~1880         15 Watt           4         1710~1755         2110~2155         15 Watt           5         824~849         869~894         30 Watt           8         880~915         925~960         30 Watt           13         777~787         746~756         30 Watt	Band         Uplink (MHz)         Downlink (MHz)         Output Power         Downlink Power Gain           1         1920~1980         2110~2170         30 Watt         24dB           2         1850~1910         1930~1990         15 Watt         23dB           3         1710~1785         1805~1880         15 Watt         23dB           4         1710~1755         2110~2155         15 Watt         23dB           5         824~849         869~894         30 Watt         24dB           8         880~915         925~960         30 Watt         24dB           13         777~787         746~756         30 Watt         24dB	Band         Uplink (MHz)         Downlink (MHz)         Output Power         Downlink Power Gain         Uplink Power Gain           1         1920~1980         2110~2170         30 Watt         24dB         33dB           2         1850~1910         1930~1990         15 Watt         23dB         33dB           3         1710~1785         1805~1880         15 Watt         23dB         33dB           4         1710~1755         2110~2155         15 Watt         23dB         33dB           5         824~849         869~894         30 Watt         24dB         33dB           8         880~915         925~960         30 Watt         24dB         33dB           13         777~787         746~756         30 Watt         24dB         33dB	Band         Uplink (MHz)         Downlink (MHz)         Output Power         Downlink Power Gain         Uplink Power Uplink Noise Figure           1         1920~1980         2110~2170         30 Watt         24dB         33dB         <3dB	Band         Uplink (MHz)         Downlink (MHz)         Output Power         Downlink Power Gain         Uplink Power Uplink Noise Gain         Consumption Engure         Consumption @24V DC           1         1920~1980         2110~2170         30 Watt         24dB         33dB         <3dB

## **MECHANICAL SPECIFICATIONS**

Dimensions: 5.8" x 6.3" x 1.5" (148mm x 161mm x 37mm)

Weight Operation 2lb. 4Oz. (1.0 kg)Temp:  $-40 \,^{\circ}$  C to  $+70 \,^{\circ}$  C

Enclosure: Watertight machined anodized aluminum housing with a powder-coated finish.

Power Connector: Mil Spec Din Type Connector