



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.

Physical Description.

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.



ELECTRICAL SPECIFICATIONS	Band	Uplink (MHz)	Downlink (MHz)	Downlink Output Power	Downlink Power Gain	Uplink Power Gain	Uplink Noise Figure	Power Consumption @24V DC	RF Connections
18-864	1	1920~1980	2110~2170	30 Watt	24dB	33dB	<3dB	2A	Type N
18-862	2	1850~1910	1930~1990	15 Watt	23dB	33dB	<3dB	2A	Type N
18-860	3	1710~1785	1805~1880	15 Watt	23dB	33dB	<3dB	2A	Type N
18-861	4	1710~1755	2110~2155	15 Watt	23dB	33dB	<3dB	2A	Type N
18-892	5	824~849	869~894	30 Watt	24dB	33dB	<3dB	2A	Type N
18-890	8	880~915	925~960	30 Watt	24dB	33dB	<3dB	2A	Type N
18-713	13	777~787	746~756	30 Watt	24dB	33dB	<3dB	2A	Type N
18-714	14	788~798	758~768	30 Watt	24dB	33dB	<3dB	2A	Type N

MECHANICAL SPECIFICATIONS

Dimensions:	5.8" x 6.3" x 1.5" (148mm x 161mm x 37mm)
Weight Operation	2lb. 40z. (1.0 kg)
Temp:	-40 ° C to + 70 ° C
Enclosure:	Watertight machined anodized aluminum housing with a powder-coated finish.
Power Connector:	Mil Spec Din Type Connector