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Extending Wireless Coverage

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Cellular band Multi Carrier Power Booster Amplifier
CCI Model Number MCPB-850-200-XXX
USER'S GUIDE

Product Description:

The MCPB-850-200 is a high linearity multi carrier power amplifier capable of delivering 200 Watts of power. It can operate with multiple numbers of carriers and various types of modulated signals. It supports GSM, EDGE, UMTS, CDMA, TDMA and Analog. The amplifier utilizes adaptive feed forward technology to improve and maintain linearity

Operation Description:

The MCPB-850-200 is designed to provide a nominal output power level of 200 Watts (53 dBm), regardless of the number of carriers or modulation types. Although the gain of the MCPB-850-200 is fixed, the output can be adjusted by setting the input power level.

Operation and Installation Instructions:

The following instructions should be followed when installing the unit in service:

- Apply a 26-31VDC input voltage to the DC Input connector of the Multi Carrier Power Booster
- Insure that the DC Source is capable of delivering up to 70 Amps at 28VDC.
- The Multi Carrier Amplifier Booster will provide approximately 15 dB or less of power gain.
- Apply a signal with a composite power of no more than +38dBm to the RF Input port of the MCPB.
- Check the RF output to insure the proper output power is present. {Approximately 200 Watts (53dBm)}.

- Adjust the relative input power level of the different carriers so that there is no individual channel with a power greater than 200 Watts to insure the output power level is in compliance with the values indicated in the table on page 2.

- Install the Alarm Connector to the Alarm Output connector of the Multi Carrier Power Booster.

Setting the RF Output Power on the MCPB-850-200 Booster Amplifier

The RF output power is not adjustable on the MCPB Amplifier. The user must adjust the RF input power to the Booster Amplifier such that the RF output power level of any of the individual carriers does not exceed the levels shown below in order for the RF output spectral emissions to be compliant with the FCC spurious emissions limit of -13 dBm outside of the assigned frequency block. **These levels must not be exceeded.**

Channel Center Frequency (MHz)	Maximum RF 0utput (Watt)*
851-894	**200**

* Note: The Maximum RF Output Power is after any passive losses after the Booster Amplifier such as filters and cables.

This equipment complies with Part 22 of the FCC rules. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

In order to comply with FCC rules for RF exposure, it must be observed that the antenna connected to this equipment be fixed on an outdoor structure and that it must have a minimum separation distance of 10 meters between it and any person."