

GSM Dual Amplifier Booster/ Combiner **CCI Model Number DAB-1819 & DAC-1819** **USER'S GUIDE**

The CCI GSM Dual Amplifier-Booster Module (DAB) consists of two linear power amplifiers with intermodulation level control circuitry, each capable of generating a 55-60 Watt GSM signal. The Dual Amplifier-Combiner Module (DAC) is identical to the DAB Module with the exception of a power hybrid combiner at the output which combines both signals to provide two 27-30 Watt GSM signals on a common output.

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

- Apply a 28VDC input voltage to the DC Input connector of the Dual Amplifier-Booster/Combiner Module.
- Insure that the DC Source is capable of delivering up to 15 Amps at 28VDC.
- Apply a GSM signal of up to +39dBm to each RF input port of the Dual Amplifier-Booster/Combiner Module.
- The Dual Amplifier-Booster/Combiner Module will provide approximately 10dB or less of RF Gain.
- Check the RF output to insure the proper output power is present. (Approximately 55-60 Watts).
- Adjust the input power level 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 Dual Amplifier-Booster/Combiner Module.

Setting the RF Output Power on the DAB & DAC Booster Amplifier

The RF output power is not adjustable on the DAB & DAC Booster Amplifier. The user must adjust the RF input power to the Booster Amplifier such that the RF output power level 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.**

Block	Channel Center Frequency (MHz)	Maximum RF Output (Watt)
A	1930.2	5
A	1930.4 - 1944.6	55
A	1944.8	5
D	1945.2	5
D	1945.4 - 1949.6	55
D	1949.8	5
B	1950.2	5
B	1950.4 - 1964.6	55
B	1964.8	5
E	1965.2	5
E	1965.4 - 1969.6	55
E	1969.8	5
F	1970.2	5
F	1970.4 - 1974.6	55
F	1974.8	5
C	1975.2	5
C	1975.4 - 1989.6	55
C	1989.8	5

This equipment complies with Part 24 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 is fixed on an outdoor structure and that it must have a minimum separation distance of 2 meters between it and any person."