

200W Multi Carrier Power Booster(MCPB)

General Information



CCI's 200W Multi-Carrier Power Booster (MCPB) represents a significant advancement in the evolution of traditional MPCA systems used in wireless networks.

Model MCPB-850-200

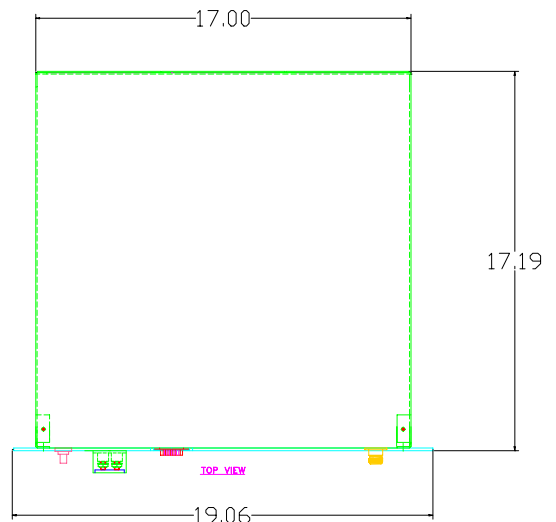
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The MCPB is designed from the ground up for today's wireless systems to provide the most power at the highest overall system efficiency, allowing for cost efficient implementation of multi-channel high capacity radio networks. Unlike conventional MPCA's that require low level signals at their input, the CCI MCPB is designed to handle the combined high-power outputs of the base station thus allowing control of system gain to be retained by the base station. The CCI MCPB provides a combined output power of 200 Watts at its output and ensures the integrity of the amplified signals. With 200 Watts per module, low gain, and the ability to handle high-power signals at its input, the CCI MCPB provides the highest achievable overall system efficiency. FCC type accepted for multiple modulation schemes, the CCI MCPB can support all the latest 3G air interface standards.

Technical Description

CCI's Multi Channel Power Booster utilizes the latest available LDMOS transistors to achieve its significant edge in efficiency. Two error correction loops work together to ensure that the MCPB exceeds its intermodulation (IMD) specification of -65 dBc.



200 Watt Multi-Carrier Power Booster Specification

PARAMETER	MCPB-850-200
Operating Frequency:	851-894 MHz
Instantaneous Bandwidth	25 MHz
Rated Output Power:	200 Watts
Out of Band Spurious and Noise	-60 dBc (Max)
IMD performance:	-65 dBc (Min)
Efficiency	14% (system efficiency 20%)
Gain:	15 dB +/- 0.5 dB
Input / Output VSWR	1.4:1 Min; 1.25:1 (typical)
Harmonics Output	-13 dBm @ 1 MHz RBW maximum
Output Protection	Mismatch Protected
DC Circuit Breaker Rating	100 Amps
Power Supply Voltage:	28 VDC Nominal, 22-31 VDC operating
Dc Input Current:	50 Amps typical
Dimensions:	19" rack mount x 3U height X 28" depth
RF Connectors	N female
Weight	55 Lbs. Max.
Operating Temperature:	-25° to +65° C Ambient
Available Alarms:	Over drive, VSWR, DC fail, over temp



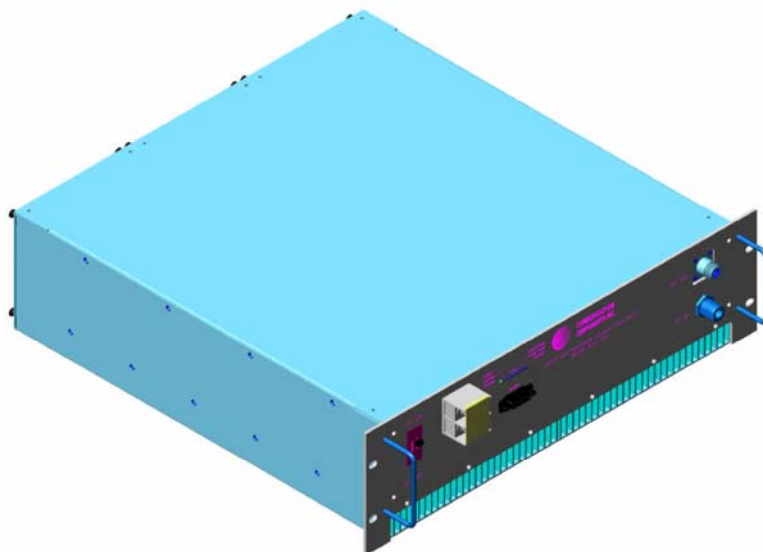
Ordering Information

200W MCPB:

CCI Model # MCPB-850-200

FCC ID # NT3-MCPB-850-200

MCPB Mechanical Diagram



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