



# Amplifiers

DATA SHEET

## 850 Receiver Air Interface Tray

RMC-850-2-8



- Provides a common receive distribution point for multiple basestations
- 8 ports, 2 channel
- Integrated test ports
- Integrated Bias-Ts
- Eliminates single cabinet dependency
- AC coupled RF Ports
- QMA receive connectors provide the fastest and most positive connection
- Single 1U Tray

### Overview

CCI's Receiver Air Interface Tray (RX-AIT) provides a convenient multiport connection for multiple basestations. The RX-AIT provides two receive paths, each amplified and fully isolated, with eight outputs plus a test port. Each amplifier is fully alarmed with separate (isolated) power supplies. The unit is contained in a single 1U tray. Integrated bias-T's provide a pathway for TMA power. The RX-AIT also eliminates TMA and receive path dependency when operating with multiple technologies such as GSM and UMTS. High linearity LNAs maintains fidelity of UMTS and GSM/EDGE signals. The unit is housed in a single rack 19" mounted assembly designed to perfectly integrate with other elements of CCI's UMTS Cositing series.



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## SPECIFICATIONS

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#### Electrical Specification

<b>Operating Band</b>	824 - 849 MHz
<b>Net Receive Gain</b>	20 dB
<b>Receive Gain Flatness</b>	$\pm 1$ dB, $\pm 0.2$ dB within any 3.84 MHz segment
<b>Input Third Order Intercept</b>	+12 dBm Min
<b>Noise Figure</b>	1.5 dB typical
<b>Phase Linearity</b>	$\leq 2^\circ$ from linear phase over any 3.84 MHz segment
<b>Splitter Output Isolation</b>	30 dB minimum
<b>IM3</b>	150 dBc min, 2x20 W carriers
<b>DC Power Requirement</b>	24 - 48 VDC (2A @ 27 VDC)
<b>Alarm Connection</b>	Dry contact each amplifier

#### Environmental Specification

<b>Operating Temperature</b>	0° C to +55° C
<b>Lightning Protection</b>	Surge > 30KA, 20 KA Mult, Res Pulse < 250 uJ

#### Mechanical Specification

<b>Input/Output Connections</b>	
<b>Receive Output Ports</b>	16 x QMA female (8 per channel)
<b>Receive Input Ports</b>	2 x N female (1 per channel)
<b>Test Ports</b>	2 x QMA female (coupled @ -20 dB) (1 per channel)
<b>DC Power Input</b>	1 x Molex Mini-Fit (2 pin male - 0.165 in. pitch)
<b>DC Bias Input</b>	2 x Molex Micro-Fit (2 pin male - 0.118 in. pitch) (1 per channel)
<b>Dimensions (body only)(HxWxD)</b>	1U or 1.75 x 19.0 x 8.10 in. (44.45 x 482.6 x 205.74 mm)
<b>Dimensions (incl. connectors)(HxWxD)</b>	1U or 1.75 x 19.0 x 9.50 in. (44.45 x 482.6 x 241.3 mm)
<b>Weight</b>	7.15 lbs (3.24 kg)

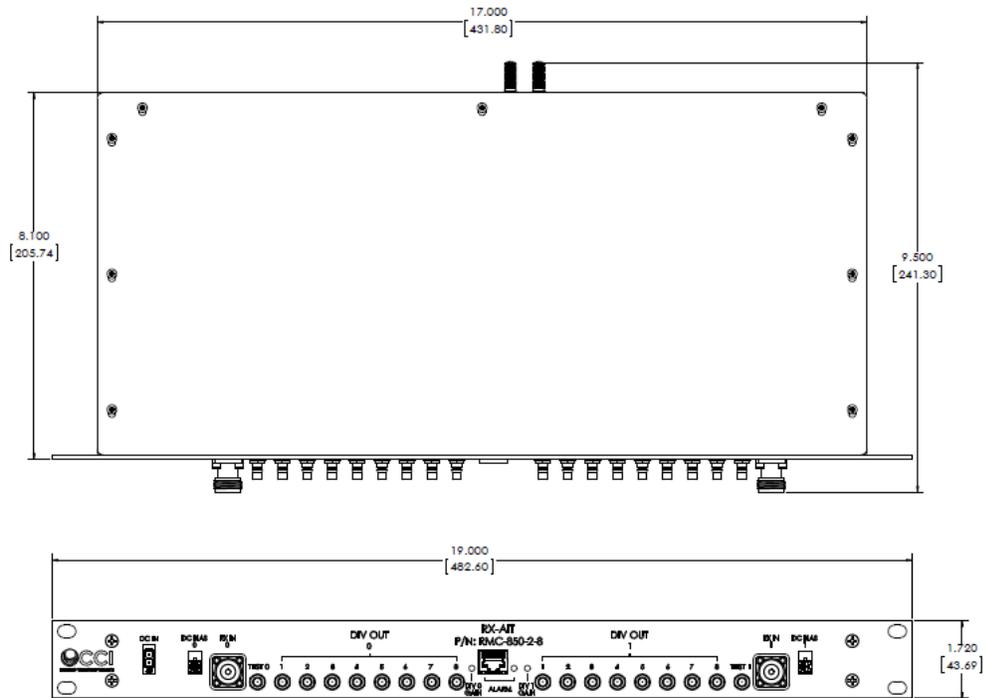


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RMC-850-2-8 Outline Drawing



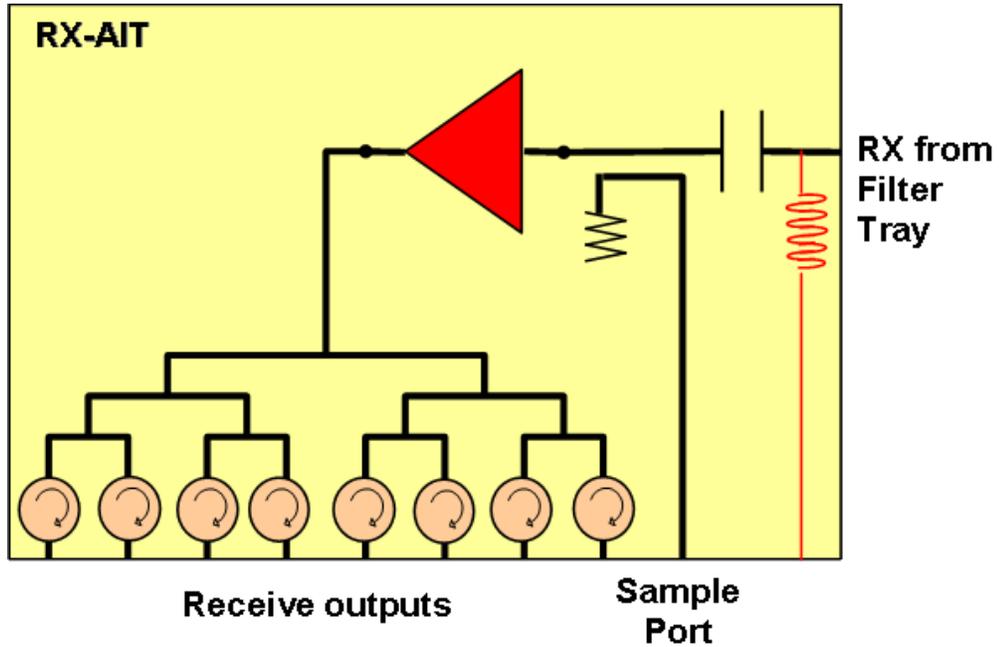
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Block Diagram



RMC-850-2-8 Block Diagram



# Amplifiers

ORDERING

850 Receiver Air Interface Tray

RMC-850-2-8

Parts & Accessories

RMC-850-2-8 8 port, 2 channel Multicoupler



# Amplifiers

STANDARDS &  
CERTIFICATIONS

850 Receiver Air Interface Tray

RMC-850-2-8

Certifications

Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US