

# Renaissance Electronics Corporation

## LTE/WiMAX Repeaters



Renaissance  $\mu$ TCA based repeaters and macro cells for point to point and point to multi-point deployment support WiMAX and LTE systems. These Multiple-Input, Multiple-Output (MIMO) and orthogonal frequency-division multiplexing (OFDM)-based systems are built upon the success and performance of industry-leading WiMAX and LTE system components and advanced wireless infrastructure equipment. The  $\mu$ TCA based system incorporates powerful feature sets that focus on flexibility and scalability, RF fidelity and superior RF performance (e.g. noise floor, EVM, SNR) necessary for error-free performance across a wide frequency range (400 MHz - 6 GHz).

This design is scalable to include up to 4 X 4 MIMO for maximum bandwidth efficiency.

### Characteristics:

Frequency UL/DL Band	3650-3700 MHz
Gain Adjustable in Tx/Rx	0.5 dB steps
Temperature Range	-30° to +65°
Noise Figure	3.5 dB
Output Power OFDM 64 QAM	+30 dBm
EVM	less than 2%
Receive Sensitivity	-85 dBm
Group Delay	5 $\mu$ sec
Network Managed	SNMP