

# Components and Integrated Assemblies



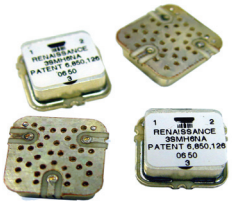
## Receiver Multi-Coupler

Renaissance Electronics' Receiver Multi-Coupler Model #14A4NH is designed for next generation commercial wireless applications. With a very low noise figure, the signal-to-noise ratio of the system improves significantly. Redundant power supplies require less system maintenance and lower maintenance cost. This unit has been field tested for facilitating site expansion in a cost effective and timely manner.



## Multi-Band Combiner

Renaissance Electronics has designed a multi-band combiner Model #18A3BAA for GSM 800/900/1800/1900 & UMTS frequency bands. This is ideal for in-building distributed antenna systems (DAS) where different operators require simultaneous coverage without interference.



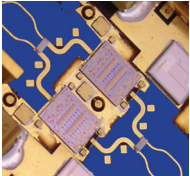
## Surface Mount Circulator

Renaissance Electronics has designed an innovative industry first coplanar Surface Mount Circulator in the frequency bands of 4.2 - 4.4 GHz (3SMH6NA) and 5.3 - 5.9 GHz (3SMH6NB) for radio and radar altimeter applications. This design is re-flow compatible and suited for pick and place manufacturing practices. This is a new addition to our surface mount designs.



## ADC/DAC Switch Matrix

Renaissance Electronics Corporation has released a new DC to 500 MHz Switch Matrix with two inputs and six outputs. The 18A1NA will support the high level of integration required during qualification testing for digital and analog assemblies operating at microwave frequencies.



## 35 GHz Integrated Transceiver

HXI produces two highly integrated transceivers to support the ground-based and flight units for a UAV landing system application. The program has been in production for 5+ years using our parts. The ground-based unit integrates 17 individual Millimeter Wave and IF circuit functions, including a 3.5W Ka-band power amplifier and a SP4T non-reflective switch matrix.



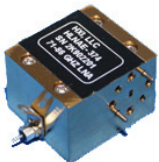
## 60 GHz & E-Band Radio Links

We have more high-capacity 60 GHz millimeter wave radios commercially deployed than any other manufacturer. Our standard off-the-shelf GigaLink radio links at 60 GHz and in E-Band are now being marketed worldwide. In addition, we have produced a number of variants of these radios for military and government usage, including analog links, custom antenna configurations, HDTV usage, etc. Standard links are full duplex, operate at a data rate of 1.25 Gbps and have near-zero latency. Each link is bench and range tested for dynamic range and bit errors.



## HDTV Link System for 3D HD Sports Production

Our GigaLink HD wireless system is the ideal solution for the most challenging temporary deployment applications where studio quality feeds are essential. Dual channel operation supports 3D-HDTV, multiple camera feeds or as a redundant hot standby configuration for absolutely critical real-time acquisition.



## Millimeter Wave Components

HXI offers a broad range of standard catalog components for use in prototyping new systems and for production requirements. These components consist of single function modules that can easily be configured into subsystems using waveguide or coax connections. The modules use mature technology such as GaAs MMICs and beam lead semiconductor devices, resulting in well established performance characteristics. The use of many common stocked parts results in low cost and fast delivery. Custom components include variations of many of our catalog products, such as LNAs, power amplifiers, frequency multipliers, mixers, switches and isolators/circulators.

**We are here to be part of your current and future innovation. Please contact**

**us at 978-772-7774 or**

**[www.rec-usa.com/Ad/8.html](http://www.rec-usa.com/Ad/8.html)**



*The New Thinking in Wireless Technology*