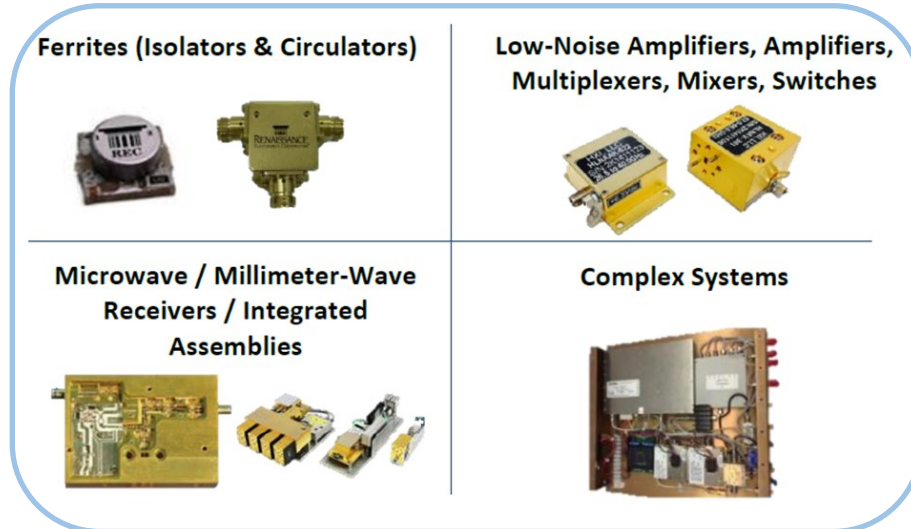## High Reliability Passive and Active components & Sub-Systems

RF, Microwave and Millimeter Wave Integrated Assemblies

Renaissance/HXI is a turnkey provider of highest quality RF, Microwave and Millimeter Wave components and sub-systems. We offer design, engineering capabilities and custom solutions for integrated passive and active components for Automotive, Telecom, Aerospace, Space and Defense applications. Renaissance/HXI is AS9100 quality standard certified company and all products are design and manufactured in ITAR controlled facility.

Component Features & Applications:

● Surface Mount Ferrites: As a leader in the industry, Renaissance Electronics has developed circulators and isolators covering HF to Ka band frequencies for challenging power levels and Environmental conditions targeting Defense and Space applications. True SMT design with automatic pick and place handling capability along with customized reflow profiles are the key features.

● Switch and Switch Matrices: From SPST to SP12T, we offer Hermetic, Electromechanical Switches for Space and Defense applications. For automotive industry, we have developed W-band switches that support ATE applications. For telecommunication and aerospace applications, designs that support non-blocking and blocking configurations along with unity gain features are available.

● Transceivers: From space grade Radar front ends to complete Transmit and Receive modules, we have customized and developed several transceivers from UHF to W-band. Using Rad hard components and thermal management techniques, these solutions have solved many difficult sub-system architectures.

● Radars and Radios: For various defense and industrial applications, like FOD detection for airport runway application or breast cancer detection, we have custom designed the analog portion of the radar working with the system level group. Our low latency (2 ns) Point-to-Point radios are most sought after by the High Frequency Traders and Space communication Researchers.