



Innovation



Leadership



Engineering



RENAISSANCE
ELECTRONICS CORPORATION

THE NEW THINKING IN WIRELESS TECHNOLOGY

Aerospace

Avionics

Industrial

Military/Defense

Medical

Telecommunications

Consumer

Experience

Renaissance Electronics Corporation (REC) is one of the world's leading manufacturers of RF and microwave sub-systems and components. For over 18 years, REC has developed innovative products for use in the avionics, military/defense, industrial, medical, telecommunications, consumer and space markets. With over 200 years of combined engineering expertise, REC can provide your organization with solutions for your toughest challenges.

Renaissance Electronics Corporation (REC) is comprised of three business units: Ferrite Products, Switch Products and Base Station Products. REC holds itself to the most-rigorous manufacturing and administrative quality standards in its marketplace and is currently in the process of obtaining AS9100 certification by teaming with MEP and GBS for completion by June 2009. REC is ISO9001:2000 certified and conforms to all MIL-45208A standards.



Renaissance offers an expanded line of high quality integrated RF and Microwave assemblies and sub-systems.

Expanded Product Line includes;

- Passive Products: Ferrites, Switches, Combiners, Filters, Couplers
- High Reliability designs to sustain high RF power
- Compact Designs for radar, missile and airborne applications
- Entire range of Microstrip, Stripline, Waveguide and Lumped Element configurations
- Switches – Industry first completely hermetic, Laser Welded Switch and 10 Million cycle Electromechanical Switch
- Combiners/Dividers: High, medium and low power Wilkinson dividers
- A broad line of active microwave and mmw components
- Custom integrated subassemblies,
- “Turnkey” Gigabit Ethernet radios

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Switch Components;

With over 18 years of experience, Renaissance Electronics Corporation can provide you with the following switches to meet your specific needs.

- Electromechanical (SPST to SP10T, Low Profile, SPDT SMT)
 - Hermetic
 - Long-life
- Solid-State
- MEMS (SPST Coaxial, SPDT Coaxial, SPST SMT, SPDT SMT)

Switch Matrices

Renaissance Electronics Corporation has successfully developed several custom switch matrices for ATE and other applications by integrating active and passive components, such as power dividers/combiners, circulators, LNA's, etc., a custom NxM matrix can be realized with standard reciprocal, non-blocking and full fan out options. With over 200 years of combined engineering design experience, Renaissance Electronics Corporation is your single source for custom-built switch matrices that meet your specific requirements, including;

- NxM Matrices
- Reciprocal/Non-Reciprocal
- Blocking/Non-Blocking
- Electromechanical, Solid State or MEMS

Each switch matrix includes an integrated driver with standard or customized interface (GOIB, RS 232, RS 485, USB, PXI or Ethernet with the option of Labview based drivers) along with full documentation. At Renaissance, we can configure any switch matrix from DC to 40 GHz for all power levels and deliver it on-time and within budget.



Leadership

Base Station Products include:

Repeaters, Filter Combiners, Duplexers, Triplexers, Multicouplers, LNA's, Multiband Combiners

Renaissance Electronics Corporation manufactures the highest quality Base Station Products. We custom-build Repeaters, Filter Combiners, Duplexers, Triplexers, Multicouplers, LNAs and Multiband Combiners to meet your needs.

MultiBand Combiner:

These low loss custom engineered combiners meet joint operator GSM and UMTS indoor cellular system requirements for 2G/3G operators. WiMax and other higher frequency application are also available upon request.

Receiver Multi-Coupler:

These units split and boost the receive signal. They range from a standard triple 6:1 configuration, to custom sextuple 2:1 configurations, all with variable gain up to 10 dB and very low noise levels.

Transmitter Combiner:

Configurations are custom engineered to meet high power combiner applications. Multiple input/output combiners are available at up to 100 watts per channel. These products uniquely balance IP3 and isolation requirements on the application.

Programmable Attenuation Panel:

With dynamic range and frequency options. They are typically built to end customer requirements.



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Quality Engineering

Ferrite Product Group:

Renaissance RF & Microwave Circulators and Isolators feature Low Loss, Low IMD performance. Our high quality products are suitably used in a broad range of applications from WiMAX, LTE, Digital TV, PCS, MMDS and LMDS among others.

Circulators and Isolators are available in the following configurations;

- Surface Mount, Microstrip, Drop-in, Coaxial, Waveguide, Full Customs



Capabilities of Renaissance

Realizing the present demand of reducing the cost and design time without sacrificing reliability and performance, Renaissance can now custom design and manufacture RF front end receivers and transmitters over the entire frequency spectrum from few kHz to 110 GHz.

Capabilities now include COTS or customized solutions for Military/Defense, Space, Medical, Telecommunication, Aerospace and Consumer markets with the following product offerings:

Components

- Low Noise Amplifiers
- Power Amplifiers
- Mixers and Detectors
- Gunn Oscillators and VCOs
- Frequency Multipliers
- PIN Switches and Attenuators
- Isolators and Circulators
- Power Dividers and Combiners
- Switches - Electromechanical Receiver

Integrated Assemblies

- Multicouplers
- Switch Matrices
- ATE
- ATCA and μ TCA
- Transceivers
- Up/down converters
- Pulsed Radar, Radio links
- Front Ends



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We encourage
you to visit our
Web site at
www.rec-usa.com
to see examples
of all our
Renaissance
Electronic products.

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