

Renaissance Electronics has New Exciting Developments!



Serving Military Programs

Renaissance has the experience and expertise to support ferrite component requirements for your defense related programs, including ground based radars, avionics, communication jamming and missile defense. Encouraged by market interest in the SMH range of surface mount circulators (originally developed for Avionics Radio Altimeter applications) Renaissance has now expanded this offering to include custom SMH isolators. Please click on the following link for more information on the SMH circulators: <http://www.rec-usa.com/catalog/ferrites/3SMH6NA.pdf> Renaissance offers highly reliable isolators and circulators with low loss, low IMD and wide temperature stability in a variety of configurations. This, coupled with responsive and flexible service, makes Renaissance an ideal choice for your custom military requirements.

IEEE IMS MTT-s 2008 Convention

The IEEE IMS MTT-s convention (Atlanta, June 17-19, 2008) provided us a forum to showcase, among other things, our new [18A7NF-1 8x8 MEMS switch matrix](#) and our new [18A1NA DAC/ADC switch matrix](#). The interest in these products was overwhelming. Our working 8x8 MEMS switch matrix was a big draw. Renaissance Electronics' engineering skills are pioneering new technology for the frequency electronics industry.

MEMS Switch Applications

Smaller in size than standard electromechanical switches, Micro-Electromechanical (MEMS) switches are rated at up to 100 billion cycles, have high cut-off frequencies, wide bandwidth operation and very low power requirement. Renaissance Electronics now offers MEMS switches and switch matrices up to 3 GHz. Our first offering is an 8x8 MEMS switch matrix (REC Part Number 18A7NF-1) which is ideal for telecommunications, testing and military and aerospace applications. [To see the data sheet click here](#). Renaissance Electronics is your most reliable source for customized switch and switch matrix solutions. Contact Jeffrey Kraft, REC's Switch Division Manager, at 978-772-7774 ext. 21 or jkraft@rec-usa.com to discuss your specific needs

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**Introducing Four New
Sales Staff**

**Korinne Stephens
Sales Administrator ext.15**

**Frank Balsamo
ext. 51**
**As the North American
Sales Manager for Ferrite
Products, Frank Balsamo
will manage and develop the
ferrite product line
throughout the USA and
Canada. Frank is a degreed
engineer with over 10 years
of professional B2B sales
experience (both financial
and technical). Most
recently employed as an
Outside Sales Engineer for a
manufacturers'
representative focused on
selling electro-mechanical
components to OEM's in the
Aerospace, ATE, Defense,
Industrial, Medical, and
Telecommunication
industries.**

**Lynn Kibblehouse
ext. 31**

New Integrated Switch Signal Combiner

A new integrated switch signal combiner that targets IED GSM cellular detonators was developed in June at Renaissance. This transfer switch approach with TTL control will allow sampling of each antenna's field strength. The splitter/combiner is bi-directional with a common connection to a circulator that will provide 20 dB of isolation to separate transmit and receive ports. The six antenna ports feed into the switches that will normally be in the closed position. This allows the RF power picked up by the antennas to be combined and fed directly to the RX port. To determine which antenna sees the highest signal strength the switches can be energized from the closed to open position sequentially. The unit is housed in a 2U height 19" rack mounted panel similar to the 14A4 series of products. Please contact Renaissance for your integrated RF assembly needs.

Distributed Antenna Systems (DAS) Developments

15C2NB Universal Radio Frequency distributed antenna system panel now operates from 800 MHz to 3 GHz (augmenting the previous upper limit of 1 GHz). Test data is available on request for this panel. [Click here for datasheet- 15C2NB](#) With a growing need for DAS products, WiMAX and LTE wireless products are being developed to meet new requirements. Renaissance will have the products to support centralized base station applications. Renaissance has six additional circulators for wireless cellular frequencies used in DAS systems and multicouplers. These units cover three cellular bands and are available with both SMA and type N coaxial connections. The 3A2BFC (700 to 960 MHz) covers the low frequencies and 3A4BP (1350 to 2700 MHz) the mid range. The 3A5BN covers 2.0 to 4.0 GHz. All units can handle 100W (CW) and have been optimized for wideband operation. [Click here for datasheet- 3A2BFC](#).

Scholarship Program

For the past ten years Renaissance has endowed scholarships at Nashoba Regional High School (Stow, Bolton, Lancaster) and Acton Boxborough High School (Acton and Boxborough) Every year, two students from each of these schools are awarded \$500 each. To be eligible, students must have financial need, plan to pursue a college program, demonstrate academic excellence in math, science and arts and display concern for fellow students and the community at large. This year's recipients are Christina Shea and Chris Winkler (Nashoba Regional) and Anna Romanova and Svetlana Romanova (Acton Boxborough). [Click here to see a photo of the recipients](#)

is the newest addition to our sales team. She comes to us with over 9 years experience in the sales and marketing industry. Lynn will manage our North American sales development network and provide sales support across all product lines.

Charles Nashef
ext. 29

Over 15 years in business development for manufactured components on a national and international level and has extensive experience working with the Aerospace, Defense, Telecom, Industrial and Medical industries. Charles will manage and develop the international markets for all of Renaissance product offering along with spear heading the marketing campaign for both national and international