RENAISSANCE
ELECTRONICS CORPORATION

1. Redundancy with SNMP

Renaissance introduces integrated assemblies that uses redundant Ethernet based control cards. The primary function is to condition the signals from dual Tx and Rx radio heads to the up-converters and down-converters along with the ability to detect signal dropout thereby switching from the Primary radio to the Secondary radio. The Ethernet interface supports the Display and Keyboard.

The Ethernet Control Unit (ECU) is the center of the system. It provides external interface to control all functions (switch and attenuation) using SNMP protocol, Command Line Interface (CLI) and Web Interface. It also provides power detection and event reporting with level of severity and status configuration through SNMP traps. The traps can be programmed to observe and report status of RF components in the matrix.

There are two processors on board and the status of the RF components along with their present state is stored in FLASH RAM. In default condition, one processor boots up while the other is in the sleep mode. The operational processor accepts all functional commands when programmed and keeps updating the other processor in real time mode. When one processor on the ECU goes down, the other processor kicks into action and all the states of the RF components are maintained. The market for these products covers both **Commercial and Government Markets - applications requiring data connection to be maintained under all conditions.** **Click here for datasheet.**

For more information please contact Renaissance Sales at 978-772-7774 or sales@rec-usa.com.

May/June Wireless Edge Newsletter 2009

Redundancy with SNMP

CTIA Las Vegas

Clearwire DAS

MTT-S June Preview

New AS9100

3G4BM BB Drop-In Model

8-Way 75 ohm Splitter

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2. CTIA Las Vegas

Renaissance attended the **CTIA Show in Las Vegas** on April 1-3 at booth #4914. We will be attending the **IEEE MTT-S Show in Boston, MA** on June 7-12 at booth #2422.

The live demonstration of the Gigalink HDTV system in Las Vegas went well as the battery life was more than adequate during the show hours.

Designed for use with professional cameras, the Gigalink HDTV-Link system is a small, light weight, and portable unit. The system is powered by an on-board battery or 12 volt power source.

The FCC Equipment type certification is near completion. The HDTV-Link system will then be available for customer demonstrations to include the British Broadcasting Corporation (BBC) evaluation system for the 2012 London Olympics.

With the explosion of HDTV video production and special 3D-HDTV effects the HDTV-Link is expected to capture a large and emerging market.

We would like to thank all of the attendees that stopped by to visit and **invite any who will be in Boston for the MTT-S event to visit at our booth #2422.**

For more information please contact Renaissance Sales at 978-772-7774 or sales@rec-usa.com.

3. Clearwire - DAS

The 15C2NM-RoHS WiMAX indoor DAS panel will see significant deployment in 2009.

Clearwire has announced plans to turn up Philadelphia and Dallas-Fort Worth along with at least six other markets this year. Washington, Boston and Samsung's crown-jewel contract, New York, will go live in 2010. Washington's later launch date is the biggest surprise since it and Baltimore were the first markets Samsung began working in 2007. While the radio network is fully built in Washington, Clearwire and Samsung have encountered numerous problems finding adequate backhaul links. The city is served primarily by T-1 lines from Verizon, which simply aren't enough to support the capacity demands of a full-scale commercial launch. The access network, however, is functioning perfectly. Clearwire has allowed government agencies to use the WiMax service during

special events, including President Obama's inauguration in January. The only place in DC Samsung hasn't been able to cover is the White House, for national security reasons.

These units have been qualified in Baltimore and we are ready to roll at seven additional airports where four BTS terminals will stack eight rack mounted panels at each location.

For more information please contact Renaissance Sales at 978-772-7774 or sales@rec-usa.com.

4. MTT-S June Preview

We are anticipating an exciting IEEE MTT-S tradeshow and Sales Meeting in June, 2009.

Our **exhibit booth is #2422** at the upcoming 2009 IEEE MTT-S International Microwave Symposium being held June 7-12, 2009, at the Boston Convention and Exhibition Center in Boston, MA USA.

REC will be showcasing some of the new integration products such as:

- LTE/WiMax Repeaters (product #8MTCA5L)
- MEMS Based 8x8 Switch Matrix (product #18A7NF-1)
- HXI Gigalink® HD-Link Single and Dual Channel

Also we will demonstrate our full product offering:

- Passive Products: Ferrites, Switches, Combiners, Filters, Couplers
- High Reliability designs to sustain high RF power
- Compact Designs for radar, missile and airborne applications
- The Entire range of ferrite products include 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 MMWave components
- Custom integrated subassemblies
- "Turnkey" Gigabit Ethernet radios

Stop by and visit us at the show or please visit our website at www.rec-usa.com for full 2009 Catalog/Brochure.

For more information please contact Renaissance Sales at 978-772-7774 or sales@rec-usa.com or HXI Sales at 978-521-7321 or

sales@hxi.com.

5. New AS9100 Status

Renaissance Electronics Corporation is moving forward with a program for continuous improvement with the completed implementation of LEAN (Lean manufacturing or lean production, which is often known simply as "Lean", is a production practice that considers the expenditure of resources for any goal other than the creation of value for the end customer to be wasteful, and thus a target for elimination.)

In addition, we are now working towards AS9100 registration. Renaissance Electronics Corporation has completed all of the documentation required and performed the Internal Audits to verify the QMS (Quality Management System) is performing effectively.

With the assistance and guidance of Global Business Systems, Renaissance Electronics Corporation is in line with AS9100 specifications and scheduled for AS9100 registration Audits in June of 2009.

Check our score at Online Aerospace Supplier Information System (OASIS).

For more information please contact Renaissance Sales at 978-772-7774 or sales@rec-usa.com.

6. 3G4BM BB Drop-In Model with Removable Connectors

Over the years, Renaissance has developed a variety of broadband devices that are uniquely designed to meet specific requirements. Recently, we designed a 1.5-2.2 GHz quasi drop-in circulator with removable SMA connectors for a space application. This device was constructed to provide high isolation and low insertion loss over a wide operating temperature range while keeping in mind the importance of achieving proper grounding when mounting the device to ensure optimum performance.

This is simply another example of how Renaissance is always there to offer responsive, flexible, customer focused solutions to support your specific RF design requirements. Please call us today at (978) 772-7774 to discuss your application. Click here for datasheet.

For more information please contact Renaissance Sales at 978-772-7774 or sales@rec-usa.com.

7. 8-Way 75 ohm Splitter

The 10A2NG-8N 8-way 75 ohm splitter was released in May 2009 for general production. This new model was designed to support existing modems with extended bandwidth from 950 to 1550 MHz. This high performance Wilkinson design exceeds the specifications for other 75 ohm devices. In addition, where the split loses exceed system requirements, an amplified version with unity gain is also in development. Click here for copy of this datasheet.

For more information please contact Renaissance Sales at 978-772-7774 or sales@rec-usa.com.