

Renaissance Electronics has New Exciting Developments!



WR-15 (V-Band) LNA

The HLNAV-364 Low Noise Amplifier covers the frequency range from 50 to 65 GHz minimum and is usable over a wider range. The unit offers a minimum of 25 dB of gain over that range with a typical noise figure of 5 dB and P1dB of +13 dBm. The LNA bandwidth is matched to the frequency range of WR-15 waveguide-to-coax adapters allowing it to be used for broadband test setups.

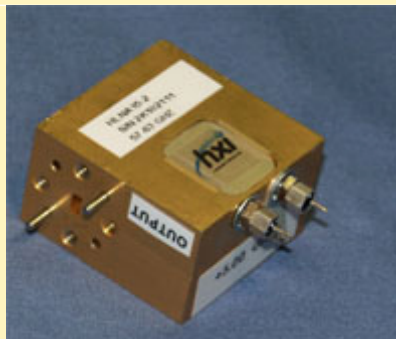
The unit employs GaAs MMICs for high reliability and repeatability. A higher gain version of the amplifier is also available.

Applications

- Test Equipment
- Communications Equipment
- General Purpose V-Band/60 GHz amplifier

Features

- Low Noise Figure
- High Gain
- Single Bias/Internal Bias Sequencing
- Internal Voltage Regulation



Specifications

Frequency Range :	50.0 to 65.0 GHz minimum
Small Signal Gain:	25 dB minimum
Gain Flatness:	+/-2 dB typical
Noise Figure:	5 dB typical
Output Power at 1dB Compression:	+13 dBm typical
RF Input Power without Damage:	-10 dBm maximum
Interfaces:	WR-15, UG-385/U
DC Power:	+6.5 VDC @ 275 mA typical

For additional information please contact;
HXI, Sales at 978-521-7321 sales@hxi.com or Renaissance Sales at 978-772-7774.

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WR-15 (V-Band) LNA

Integrated Switch
18A1NAI

Hermetically Sealed
Switch

Angel Fire

New Promotions



Integrated Switch 18A1NAI

Renaissance's new 18A1NAI switch matrix is designed for applications that require reverse low power signals to interfere with forward high power going through the thru paths. The thru path can be stepped in intervals of 1.0 dB and up to 120 dB. Various models for different frequency bands are designed with high isolation and directivity. The components are designed for highest performance and reliability. The matrices are 1U in height in a standard 19" rack.



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

Hermetically Sealed Switch

The production of hermetically sealed components requires stringent quality control metrics and attention to detail. The test and assembly process is much more complex than our standard design. The 100% leak testing ensures a precision high reliability component that meets Mil-Std 202 method 112E.

These current production components have seen increased demand in mission critical applications.

Renaissance Electronics RSMH series of switches offer the same dependability of our standard design in a Hermetic Laser Welded package. All seals are glass to metal or metal to metal. These SPDT switches are laser welded in an argon environment (< 50 ppm moisture) and will operate at -55° to +85°C. There is no use of any epoxy on these switches. The maximum leak rate is 10⁻⁷ atm/cc-sec. The RSHM series of switches are typically break before make, failsafe configurations. They also offer low insertion loss minimal VSWR and high isolation.

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

Angel Fire

HXI, LLC Delivers (5) E-Band "Angel Fire" systems

Haverhill, MA. HXI, LLC a wholly owned subsidiary of Renaissance Electronics, delivered (5) special military variants of their popular Gigalink commercial E-band radio system last month. These systems

will be deployed with the US Marine Corps operating in The Republic of Iraq to provide high capacity, point to point, transport of real-time imagery to commanders in the field.

Project Angel Fire is a tactical situational awareness system for large-area urban environments. The system uses electro-optical sensor data and high resolution imagery to provide near real-time images to users on the ground. Multiple users can be served via wireless distribution and the data is archived for later forensic analysis. The current system utilizes an array of (6) 11 mega-pixel cameras, whose images are tiled and georectified before being sent to the ground via a downlink. Images are then displayed in a viewer client and can be zoomed to half-meter resolution.



Angel Fire composite, high resolution image

The HXI Model 605-90745X radio system operates in the E-Band frequency spectrum of 71-76GHz while complying with strict NTIA limits on frequency stability over temperature. Further, the hardened Angel Fire system architecture provides reliable service in extremely harsh operating environments.

The December '08 deliveries represent ongoing support by HXI of the Angel Fire Project. To date, a total of 15 Angel fire systems have been supplied and operational reliability has exceeded all expectations. HXI is proud to support our military personnel with systems to improve mission success and protection of our servicemen.

For additional information please contact; HXI, Sales at 978-521-7321 sales@hxi.com or Renaissance Sales at 978-772-7774.

Renaissance is delighted to announce Sales Promotions for;

Michael Donaghey, Vice President of Sales and Marketing for HXI products. HXI is a wholly owned subsidiary of Renaissance Electronics. Michael's goal is to help integrate HXI's product line under the umbrella of Renaissance Electronics. Renaissance now has an expanded line of high quality integrated RF and microwave assemblies and sub-systems. Michael joined Renaissance over a year ago as Vice President of Sales and Marketing for all product lines. To talk more about HXI or

Renaissance products please contact Michael at mdonaghey@rec-usa.com.

Charles Nashef, International Sales Manager. Charles manages the international markets for all of Renaissance product offerings along with leading the marketing campaign for both national and international. To contact Charles email him at cnashef@rec-usa.com.

Michael Snee, Vice President of Switch Product Division. Michael was most recently Vice President of Procurement, handling purchasing. Michael has been a valued employee for over ten years and worked in Sales and RF industry for over 25 years. To contact Michael email him at msnee@rec-usa.com.

Lila Louangphixai, Sales Assistant. Renaissance wants to welcome Lila to her new position in support of the sales function.

If you want more information please call Sales and Product Support at 978-772-7774

