



## Company Fact Sheet

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**Headquarters:** Jacket Micro Devices, Inc. (JMD)  
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**Overview:** Jacket Micro Devices (JMD) is a worldwide supplier of integrated RF modules for high performance wireless products. JMD's patented Multi-Layer organic (MLO) technology defines a revolutionary, system-on-package (SOP) approach to RF modules for wireless products and is ideal for wireless systems engineers who need to design compact wireless products.

### Market

**Differentiation:** Unlike modules made with ceramic and other technologies, JMD's patented organic technology can be rapidly customized and supports higher levels of integration, resulting in fewer external components and faster time to market. With our modules, manufacturers can push the boundaries of size and performance as they continue to develop—and deliver—new, innovative wireless products.

**Ownership:** Privately-held

**Investors:** Sevin Rosen Funds, Intersouth Partners, Noro-Moseley Partners and Imlay Investments.

**Management:** Jim Stratigos, CEO  
Dr. George White, CTO and Co-Founder  
Bob Bayruns, VP of Engineering  
Chris Conlin, VP of Marketing & Sales  
Fred Pike, VP of Operations

**Employees:** 35

**Markets Served:** Wireless device manufacturers and OEMs of laptops, cell phones, multimedia devices and broadband wireless products.

**Solutions:** JMD has developed the M20000 family of products, the world's smallest complete RF front end modules for 802.11n. Measuring 8x8x1.2mm, the M20001 is the smallest dual-band WLAN module in the industry. These modules may be used alone or in various combinations to configure a complete solution for the RF components needed for OFDM & MIMO WiLAN applications.

JMD has also developed the M30000 family of products, which are the market's first WiMAX complete front end modules for 802.16e. Designed to deliver a highly integrated and performance optimized WiMAX front end while maintaining a small package size, the single 7x7mm package of the M30001 enables more functionality per area and allows more space for other features and functions. The M30001 is targeted for production release in Q2 2007.



**Market Issues:** As the complexity of radio frequency (RF) circuits grows, the space available in cell phones, PDAs, laptops and other portable devices is shrinking, creating significant challenges for designers and manufacturers of wireless products. JMD's patented platform technology dramatically reduces the size and cost of the RF components used in wireless devices.

JMD's achievements in integration technology will be disruptive to the \$5 billion RF integrated circuit industry and will be an essential element of advanced wireless interfaces in laptops, cell phones and future broadband wireless products.

**Market Size:** InStat estimates the WLAN chipset market to reach 430 million units and nearly \$3 billion dollars in annual revenue by 2009; further, WiMAX chipsets should ship >15 million chipsets, representing revenues of ~\$400 million. Many consumer electronic devices will offer WiLAN and/or WiMAX functionality, multiplying the performance requirements within the FEM. Current ceramic module technology will not be able to meet this integration demand, and JMD has the only technology which will enable multiple radios in space constrained devices.

**Certifications:** ISO 9001:2000-certified

**Associations:** AeA, Wi-Fi Alliance, PDMA, WiMAX Forum, ISO, GTPRC

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## Executive Management Team

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### **Jim Stratigos**

#### **President and CEO**

Jim brings to JMD extensive entrepreneurial, executive management, technology investment and product commercialization expertise, with more than 30 years of experience as a successful technology entrepreneur and industry leader. During his career, Jim has founded three technology companies, two of which were sold and remain as successful operating units of public companies.

### **Dr. George White**

#### **CTO and Co-founder**

Dr. White has over 17 years of experience in electronic packaging design and research. At Motorola, George led the embedded passive program for organic PWBs. Technology developed through this effort will be implemented in Motorola's next generation of mobile handsets. George holds over 14 patents in electronic packaging and is the author of numerous publications in electronic packaging technology.

### **Bob Bayruns**

#### **VP of Engineering**

Bob has over 25 years of experience in the development of RF semiconductor components and systems. He helped start ANADIGICS from its beginning where, during his fifteen year career, he led the company's efforts in the development of key RF technologies for the wireless, fiber optics and CATV industries. His team developed the first plastic packaged MMIC cell phone power amplifier to go into mass production in a wireless cell phone handset. Bob has 10 patents in circuit design and 20 published technical papers.

### **Chris Conlin**

#### **VP of Marketing and Sales**

Chris was previously the Vice President of Marketing and Sales at Skyworks Solutions, Inc., a leading RF wireless semiconductor company. Prior to Skyworks, Chris was Vice President of Marketing and Sales at RF Monolithics, Inc., a leading supplier of RF solutions for wireless and computing applications.

### **Fred Pike**

#### **VP of Operations**

Fred has over 25 years experience in global operations and supply chain management in the semiconductor and electronics industry including management roles with start-up and early stage companies.



## **FOR IMMEDIATE RELEASE**

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### **QUALCOMM Selects Jacket Micro Devices' RF Modules for Chipset Reference Design**

***JMD's technology enables QUALCOMM's next generation  
draft 2.0 802.11n chipset***

**ATLANTA – January 10, 2007** – Jacket Micro Devices (JMD), suppliers of the smallest, highest performing RF modules available, today announced that QUALCOMM Incorporated, a leading developer and innovator of advanced wireless technologies and mobile data solutions, has selected Jacket Micro Devices' M20006 and M20007 RF modules for the draft 2.0 compliant 802.11n AGN400™ chipset reference design. The combination of QUALCOMM's advanced chipset and JMD's FEM technology enable QUALCOMM to implement a 2x3 dual band MIMO architecture with the RF portion occupying only 98 mm<sup>2</sup> of board space.

JMD's level of integration within the module reduces the bill of materials (BOM) for QUALCOMM and allows for reliable manufacturing and small form factor reference designs. The performance of the JMD RF Modules, when coupled with QUALCOMM's AGN400 chipset, achieves throughput speeds of 315 Mbps.

The AGN400 is the world's first chipset offering full support for Draft 2.0 of the IEEE 802.11n standard. The AGN400 chipset is the fourth generation 802.11n-compliant chipset from QUALCOMM and features QUALCOMM's True MIMO Gen-N technology. True MIMO Gen-N capitalizes on QUALCOMM's patented innovations in multiple antenna technology to extend the effective range and bolster data throughput for consumer Wi-Fi and next-generation wireless digital home entertainment devices.

"We believe JMD's unique Multi-layer Organic (MLO) technology is the only choice for multi-band, high performance and space constrained RF circuits like the QUALCOMM AGN400," said Jim Stratigos, president and CEO of Jacket Micro Devices. "The complexity of OFDM and MIMO architectures requires a high degree of integration to provide functionality in the smallest space possible. JMD has the only technology which enables multiple radio designs for space-constrained devices."

*(more)*



The AGN400 chipset, reference designs and software are currently sampling with lead customers and are being publicly demonstrated at the 2007 International Consumer Electronics Show being held in Las Vegas, Nevada from January 8 - 11. Products containing True MIMO Gen-N technology are expected to be commercially available in the first quarter of 2007.

#### **About JMD RF M20006 and M20007 RF Modules**

The M20006 and M20007 comprise a complete dual band 2x3 RF front end module (FEM) for 802.11a/b/g/n applications. The 1x1 MIMO building block M20006 can stand alone or be used in combination with the M20007 1x2 MIMO FEM to implement all popular MIMO structures including 2x2, 2x3, and 3x3. The 7x7x1.4 mm LGA package contains dual band transmit and receive chains ideal for small form factors such as notebook PCI Express mini cards, USB dongles, and embedded WLAN interfaces. The single package includes all RF filters, baluns, PAs, LNAs, and switches to reduce size and minimize assembly costs of the deployment of new WLAN standards.

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### **Jacket Micro Devices Announces First Mobile WiMAX Front End Module**

#### ***New M30001 Gives Wireless OEMs High Performance in Small Package, Helping to Meet Demand for Space-constrained Devices***

**ATLANTA – December 12, 2006** – Jacket Micro Devices (JMD), supplier of the smallest, highest performing RF modules available, today announced it will begin sampling of the market's first complete mobile WiMAX RF front end module in January 2007.

The new product, M30001, is a highly integrated and performance optimized WiMAX front end containing all active and passive components required to interface WiMAX transceivers directly to an antenna. The single 7x7x1.2 mm QFN package is ideal for mobile phone, laptop and consumer electronics applications. The small size of the M30001 allows WiMAX interfaces to be integrated along with other wireless and computing functions into small form factor products such as PCI Express, USB and handsets. M30001 is targeted for production release in Q2 2007.

"We are convinced that WiMAX will offer consumers a new and exciting option for mobile broadband connectivity," said Jim Stratigos, JMD's CEO. "Our modules will greatly simplify the design of WiMAX products and turn what could be a challenging RF circuit design with many disparate active and passive components into a single tested and ready to use component."

The M30001 provides exceptional attenuation in the UMTS transmit and receive bands making it ideal for cellular environments. Meeting the need for extended range and increased data rates of WiMAX devices, the module delivers 24 dBm output power at 4 percent error vector magnitude (EVM). It is compatible with MIMO and antenna diversity configurations using a1x2 architecture.

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### **Jacket Micro Devices Announces \$12M in Funding Led by Intersouth Partners**

**ATLANTA – October 6, 2006** – Jacket Micro Devices (JMD), suppliers of the smallest, highest performing RF modules available, today announced it has received \$12 million in venture funding. New investor Intersouth Partners led the round with participation from existing investors Noro-Moseley Partners, Sevin Rosen Funds and Imlay Investments. The new round of financing will be used to expand product development and ramp production of the company's recently introduced products for 802.11n applications.

"We believe JMD is strategically positioned to capitalize on the wireless industry's demand for small, high-performing RF modules," said John Glushik, partner of Intersouth Partners. "The company has not only developed a groundbreaking new method to package components for wireless products, but it also has a compelling competitive advantage due to its use of organic materials, which significantly reduces time to market for new products."

Key market drivers for JMD's products include the growth in complexity of wireless technology driven by new standards, such as 802.11n and 802.16e, that require multiple transmit and receive paths and thus complex front ends. Shrinking form factors in portable products such as laptops and handsets require highly integrated solutions that can integrate all the active and passive components into a single module. According to In-Stat Research, the market for wireless interfaces that use the 802.11n standard will exceed 200 million units a year by 2009.

"RF modules are becoming an essential component of advanced wireless products because Moore's law simply does not work for high performance RF circuits that require a mixture of semiconductor technologies and low-loss passive components," said JMD's CEO Jim Stratigos. "The systems-on-package approach using JMD's patented multi-layer organic technology is positioned to become the preferred solution to the challenge of integrating complex RF circuits into compact products."

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### **About Intersouth Partners**

Located in Durham, North Carolina and Reston, Virginia, Intersouth Partners is one of the largest, most active and most experienced early stage venture funds in the country, having invested in more than 80 private companies over the last two decades. Founded in 1985, Intersouth Partners manages more than \$750 million in seven venture capital limited partnerships. Intersouth seeks a broad range of seed and early-stage investment opportunities throughout the Southeast, focusing on the information technology and life sciences sectors. Visit [www.intersouth.com](http://www.intersouth.com) for more information.

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### **Jacket Micro Devices' CTO and Co-Founder Recipient of AeA's Spirit of Endeavor Award for Technology Innovation**

**ATLANTA – September 15, 2006** – Jacket Micro Devices, Inc. (JMD) announced that the Company's Chief Technology Officer and Co-founder, Dr. George White, was the recipient of the 2006 American Electronics Association (AeA) Southeastern chapters' Technology Innovation Award. Dr. White was honored at the fourth annual Southeastern Spirit of Endeavor Awards banquet on September 14 at the Fox Theater in Atlanta. A panel of 39 leaders in the southeast technology community selected the winners using a confidential online process.

JMD was founded in 2002 based on the cutting edge research Dr. White spearheaded as the Associate Director of the Packaging Research Center at Georgia Institute of Technology. The new patented platform technology that Dr. White, along with the other JMD founders, has developed dramatically reduces the size and cost of the RF components used in wireless devices. At JMD, Dr. White has successfully commercialized the System-On-Package (SOP) approach to next generation electronic packaging originally conducted at PRC.

"This is a well-deserved award, as we know first hand that Dr. White represents the "Spirit of Endeavor" in that he has successfully bridged the "academic research-to-commercialization" chasm," said JMD's CEO Jim Stratigos. "Dr. White's achievements in integration technology will be disruptive to the \$5 billion RF integrated circuit industry and will be an essential element of advanced wireless interfaces in laptops, cell phones and future broadband wireless products. Because of Dr. White's passion, leadership and technology, the success and continued growth of JMD is certain."

Dr. White has received three critical patents related to Multi Layer Organic (MLO) packaging while working at JMD. In total, Dr. White holds 15 patents in the area of electronic packaging and has numerous additional patent applications.

Dr. White holds a PhD in Materials Science and a MS in Metallurgical Engineering from University of Illinois. Prior to JMD and PRC, he served with Motorola's Corporate Technology Labs as Manager Materials Research and IBM's Microelectronics Advanced Thin Film Technology Group as Development Engineering Manager.

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