

RFM News Release

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RETURN TO FLIGHT SPACE SHUTTLE MISSION A SUCCESS WITH RF MONOLITHICS, INC. RADIOS

DALLAS, TEXAS, (August 18, 2005) RF Monolithics, Inc. [NASDAQ:RFMI] (RFM) today announced it provided the radio technology for wireless sensing systems on the Space Shuttle Discovery (STS-114) in its Return to Flight Mission. Working with National Aeronautics and Space Association (NASA), Invocon, Inc. outfitted Shuttle Discovery with wireless monitoring systems it designed, containing more than 50 of RFM's patented Virtual Wire™ transceivers, which are radio frequency (RF) transceivers based on proprietary amplifier-sequenced hybrid (ASH) radio architecture. This architecture integrates RF ICs with surface acoustic wave (SAW) filtering and frequency control devices in a single hybrid package, which greatly simplifies and accelerates RF design tasks.

Invocon develops wireless networking technology solutions for a variety of applications for NASA and others. For STS-114, Invocon's systems included Micro-Miniature Tri-Axial Accelerometer Units, a network of small, battery powered, wirelessly programmable, synchronous, tri-axial acceleration data recorders designed to detect vibration of payloads during launch and landing; plus a series of Wing Sensors and Repeaters integrated into each of the Shuttle's wings leading edges for monitoring and notification of impact events.

“This is not RFM’s first time to work with NASA or fly in space but we are very excited about the success of this Shuttle flight and glad to be a part of the Return to Flight Mission with Discovery. Early indications are that the systems, provided by Invocon incorporating RFM radios, performed better than anticipated,” said David M. Kirk, RFM’s President and Chief Executive Officer. “RFM is pleased to collaborate with Invocon for the RF protocol in these systems aboard the Shuttle, particularly the leading edges of the Shuttle wings where so much focus and importance has been placed. Mission critical applications like these are ideal for our low-power transceivers in a battery powered environment where long battery life and a small foot print are essential.”

About RFM

Celebrating over 25 years of low-power wireless solutions, RFM, headquartered in Dallas, Texas, is a leading designer, developer, manufacturer and supplier of radio frequency wireless solutions enabling wireless connectivity for the automotive, consumer, industrial, medical and communications markets worldwide, allowing our customers to provide products and services that are both cost effective and superior in performance. RFM’s wireless solutions are supported by industry leading customer service. For more information on RF Monolithics, Inc., please visit our websites at <http://www.rfm.com> and <http://www.wirelessis.com>.

About Invocon

Founded in 1986, Invocon has developed into a leader in wireless Research and Development. Based in Conroe, Texas, 30 miles north of Houston, Invocon has aimed to produce very high technology design and prototype fabrication as a service for major corporations, professional R&D management companies, and government entities. For more information on Invocon, please visit <http://www.invocon.com>.

Forward-Looking Statements:

This news release contains forward-looking statements made pursuant to the Safe Harbor Provision of the Private Securities Litigation Reform Act of 1995 that involve risks and

uncertainties. Statements of RFM's plans, objectives, expectations and intentions involve risks and uncertainties. Statements containing terms such as "believe", "feel", "expects", "plans" "anticipates" or similar terms are considered to contain uncertainty and are forward-looking statement, as well as the other risks detailed from time to time in RFM's SEC reports, including the report on Form 10-K for the year ended August 31, 2004. RFM does not assume any obligation to update any information contained in this release.

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