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## **Advanced Wireless Router for Long-Range, Mobile Applications**

**Cincinnati, OH, March 1, 2004** – Nova Engineering, Inc., developer of the world's first commercial mobile ad hoc networking (MANET) device, announced the latest addition to its mobile router product line, the NovaRoam® EH900. NovaRoam EH900 is a long range wireless IP (Internet Protocol) router in a compact and lightweight enclosure targeted for dynamic wireless networking applications.

NovaRoam EH900 uniquely addresses the complexities of mobile data communication by incorporating mobile ad hoc networking technology. Empowered by this technology, NovaRoams automatically establish intelligent communication links with neighboring NovaRoams, even while in motion. Therefore, if a direct link from source to destination is unavailable, data will "hop" through intermediate users until reaching the intended recipient. The resulting ad hoc peer-to-peer mesh network provides near-seamless data communication in rapidly-changing mobile environments without requiring an existing infrastructure.

As a complement to its mobility, NovaRoam EH900 achieves far-reaching communication that is measured in miles, not just meters. The combination of spread spectrum waveform technology, outstanding radio performance, and 902-928 MHz operation facilitates communication links spanning great distances. In fact, with the proper installation NovaRoam EH900 is capable of closing point-to-point communication links over 25 miles.

With the need for secure communications growing, NovaRoam EH900 includes several robust security features that maintain the integrity of critical data. First, NovaRoam EH900's proprietary frequency hopping spread spectrum (FHSS) radio signal is

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inherently difficult to intercept or jam. In addition, IP and MAC address filtering coupled with a password-protected login prevent unauthorized access to secure NovaRoam networks. Finally, NovaRoam EH900's 128 bit AES-type encryption safeguards mission-critical data from being compromised.

NovaRoam EH900 offers two selectable burst data rates of 400 and 100 kbps, with maximum link throughput rated at 300 and 75 kbps, respectively. This flexibility allows users to optimize range and throughput performance according to their applications' requirements.

"NovaRoam EH900 is a breakthrough data communication solution that can have an immediate impact in application areas that include public safety, military, and industrial monitoring and control." said Michael Rauf, Director of Marketing and Sales. "As beta customers developing next-generation tactical networks have already discovered, the EH900 offers a highly-attractive mix of features, functionality, performance, and price."

### **ABOUT NOVA ENGINEERING**

Founded in 1989, Nova Engineering uniquely combines RF, digital and real-time embedded software expertise to develop and manufacture wireless data communications equipment. Combining advanced wireless networking and waveform development, with the company's products such as software defined radio cores and wireless data communication equipment, Nova Engineering has pioneered a variety of leading-edge developments. Customers include all branches of the military, as well as non-DOD agencies, major military electronics manufacturers and a wide variety of Fortune 500 companies. Nova Engineering is headquartered in Cincinnati, OH. The web site is [www.nova-eng.com](http://www.nova-eng.com).

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