Press Release

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Vubiq Networks Awarded European Unitary Patent for Modular Millimeter Wave Waveguide Technology

Single patent protects Vubiq's integrated circuit board launch transducer across 18 European Union countries through 2038

IRVINE, CA, March 10, 2026 – Vubiq Networks, Inc., the innovation leader in millimeter wave wireless broadband technology and solutions, today announced that the European Patent Office (EPO) has granted the company a European patent with unitary effect. European Patent No. EP 3 732 745 is entitled Waveguide Interface and Printed Circuit Board Launch Transducer Assembly and Methods of Use Thereof. It is the European counterpart of the company's U.S. Patent 10,818,997.

A single right across 18 countries. Unlike a traditional European patent, which must be validated and maintained country by country, a unitary patent provides one uniform right enforceable through the Unified Patent Court. Vubiq's patent is in force in Austria, Belgium, Bulgaria, Denmark, Estonia, Finland, France, Germany, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Portugal, Romania, Slovenia and Sweden, and runs through December 2038.

"This patent takes our Modular Integrated Waveguide technology to its logical conclusion: the circuit board itself becomes the launch into the waveguide," said Mike Pettus, founder and CTO of Vubiq Networks. "Millimeter wave chips can be surface-mounted with standard assembly, and their signal goes straight into the waveguide with no wire bonds and no extra substrates."

Solving a costly millimeter wave packaging problem. Connecting millimeter wave semiconductors to a waveguide has traditionally required either wire-bonding bare chips to the circuit board, an expensive process prone to yield problems, or adding a separate launch substrate mounted at right angles to the waveguide, which requires costly split-cavity assembly and loses signal energy. Vubiq's patented approach extends a dielectric layer of the printed circuit board beyond the rest of the board and forms the launch transducer directly on it. That extended section slides into a precision slot in the waveguide interface, launching millimeter wave energy efficiently along the waveguide axis.

The result is a waveguide assembly compatible with wafer-level chip-scale packaging (WLCSP) and standard surface-mount manufacturing, lowering cost and improving yield for E-band and other high-frequency radios. Because the radio frequency section remains a self-contained module, manufacturers can change operating bands or adopt the latest millimeter wave silicon without redesigning the entire circuit board.

"European operators are deploying E-band links in growing numbers for 5G backhaul and fiber extension, and manufacturers serving that market need cost-effective ways to build them," said Vubiq Networks CEO John Dilworth. "A unitary patent gives us strong, efficient protection across 18 countries with a single grant. It significantly increases the value of our portfolio for licensing partners and for anyone building millimeter wave radios for the European market."

The new grant extends Vubiq's series of patents on its Modular Integrated Waveguide (MIW) technology, which separates the analog radio frequency components from the digital modulation components so that new millimeter wave products can be developed rapidly without complete circuit board redesigns.

Vubiq Networks is offering its intellectual property and patent portfolio, including the new unitary patent, in the form of licensing agreements or an outright sale.

About Vubiq Networks

Vubiq Networks, Inc. is a privately held millimeter wave innovation company headquartered in Irvine, California. With nearly 20 years of experience in telecommunications and extremely high frequency (EHF) applications, and a portfolio of 19 U.S. and two European patents, the company continues to expand its global reach into cutting-edge technologies such as 5G point-to-point connectivity, wireless fabric architecture, chipless RFID data tag hyperimaging, IoT smart sensors, EHF medical applications, and more. For further information, visit www.vubiqnetworks.com.

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