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## Vubiq Networks Awarded Surface Mount Patent for Maximizing Millimeter Wave Radio Production Efficiency and Performance

### New patent increases wireless radio performance and manufacturing efficiency, while lowering costs and inventory complexities

IRVINE, CA, April 2, 2024 – Vubiq Networks, Inc., the innovation leader in millimeter wave wireless broadband technology and solutions, today announced that it has been awarded yet another millimeter wave technology patent by the U.S. Patent and Trademark Office. Patent number 11,936,087 is entitled ***Printed Circuit Board with First and Second Surfaces Configured for Waveguide Coupling a Diplexer Mounted on the First Surface to a Transmitter and a Receiver Mounted on the Second Surface.***

“This is the latest in a series of seven evolutionary US and European patents we have been awarded for our millimeter waveguide technology,” said Mike Pettus, founder and CTO of Vubiq Networks. “This new patent covers our unique printed circuit board design and method for mounting millimeter wave devices using surface mount technology for low cost and highly automated manufacturing of millimeter wave radios.”

Vubiq Networks’ patented technology provides for maximum efficiency, performance and versatility in the production of millimeter wave wireless radios. The technology provides a number of key benefits:

- **Increased manufacturing efficiency:** While other millimeter wave radios require multiple circuit boards and modules, Vubiq’s patented technology speeds and simplifies production and lowers costs by accommodating all components on a single, two-sided circuit board for efficient, single-pass production runs.
- **Higher radio performance:** The unique circuit board design technology and surface mount methods provide more efficient power transfer and improves frequency division duplex (FDD) transmission by exacting a higher degree of signal isolation between the FDD frequencies.
- **Lower manufacturing costs and reduced inventory categories:** Unlike other radios that must be manufactured and inventoried depending on the frequency band used, Vubiq’s patented software-defined technology means that all radios can be manufactured identically, with operating frequency being defined programmatically and independently during the manufacturing process, thereby reducing inventory costs and complexities.

“We are very pleased to have been awarded this important new patent for our innovative technology,” said Vubiq Networks CEO John Dilworth. “Our patent portfolio is integral to the design and manufacturing of our newly announced HaulPass Fiber radio front end (RFE), the industry’s most compact outdoor radio. HaulPass Fiber is the first software-defined millimeter wave radio. It uniquely positions the network stack outside of the radio, creating a true ‘wireless fiber’ solution. It places the control of the radio where network operators want it – at the network application or as an extension of a nearby switch – enabling seamless network integration. Just plug the RFE radio into any network and instantly extend the fiber network wirelessly.”

[Read the complete US patent award.](#)

[Read more about HaulPass Fiber.](#)

### About Vubiq Networks

Vubiq Networks, Inc. is a privately held millimeter wave innovation company headquartered in Irvine, California. With over 16 years of experience in telecommunications and extremely high frequency (EHF) applications, the company continues to expand its global reach into cutting-edge markets 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](http://www.vubiqnetworks.com).