Press Release ***For Immediate Release***

Contact:
John Dilworth
949.226.7185
info@vubiqnetworks.com

Vubiq Networks Validates Mass Manufacturing of HaulPass Fiber E-band Radio with Contract Manufacturer

Patented surface-mount radio design and contactless waveguide test process lower production cost and remove a key risk in building millimeter wave radios

IRVINE, CA, November 15, 2025 – Vubiq Networks, Inc., the innovation leader in millimeter wave wireless broadband technology and solutions, today announced that it has validated mass manufacturing of its HaulPass Fiber E-band radio with a contract manufacturer. The milestone moves HaulPass Fiber beyond preliminary production runs to a repeatable, volume-ready assembly and test process, a critical step in reducing risk for any company building or acquiring a millimeter wave product.

Manufacturing is the hidden risk in millimeter wave. At E-band frequencies of 70 and 80 GHz, building a radio reliably at volume can be as difficult as designing it. Conventional radios are assembled from separate modules, subassemblies, cables and machined waveguide flanges fastened by hand, and every interface adds labor, test time and opportunity for yield loss. For operators, manufacturers and investors evaluating a millimeter wave product, unproven manufacturability is one of the largest risks in the program.

“Building a few E-band radios in the lab is one thing. Building thousands that perform the same, at a cost the market will accept, is where most millimeter wave programs struggle,” said Mike Pettus, founder and CTO of Vubiq Networks. “We designed HaulPass Fiber to be manufactured and tested from day one. Validating that process at a contract manufacturer proves the radio can be built in volume, not just engineered.”

Designed to be built. HaulPass Fiber’s all-surface-mount radio printed circuit board (U.S. Patents 11,936,087 and 12,206,150) eliminates the separate modules, subassemblies and cables found in conventional radios. The design lowers the bill of materials and allows the complete radio board to move directly from the standard surface-mount production line to final test.

Seconds to set up, automated to test. The board’s surface-mount waveguide ports mate with an advanced gap waveguide test fixture that requires no direct electrical contact. With no mechanical waveguide flanges or fasteners to install, a finished board is placed on the fixture in seconds, removing one of the most labor-intensive steps in millimeter wave production. An automated test program then runs the complete transmitter and receiver test.

Because the radio is directly programmable through simple API commands (U.S. Patent 12,231,936) and covers both the 70 GHz and 80 GHz bands, the test is a precisely controlled RF loopback of the transmitter and receiver in both bands. Signals are measured with a power sensor offering 0.1 dB resolution and accuracy traceable to the National Institute of Standards and Technology (NIST). The result is faster throughput, consistent quality and a lower cost of production.

“For anyone evaluating a millimeter wave product, the first question is ‘does it work?’ The second is ‘can it be built at scale, at the right cost?’” said Vubiq Networks CEO John Dilworth. “Validating mass manufacturing answers that second question. Our patents don’t just make a better radio; they make a radio that is more

efficient and less expensive to produce, and that substantially reduces the risk for anyone who licenses or acquires the technology.”

Vubiq Networks is offering HaulPass Fiber, together with its validated production and test process, in the form of licensing agreements or an outright sale of the company’s intellectual property and patent portfolio.

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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