

20 June 2025

ETHERNITY NETWORKS LIMITED
(“Ethernity” or the “Company”)

Notice of Allowance for Key Longest Prefix Match Routing Patent in US

Ethernity Networks Ltd (AIM: ENET.L; OTCMKTS: ENETF), a leading supplier of data processing and Passive Optical Network (“PON”) semiconductor technology for networking appliances, is pleased to announce that the United States Patent and Trademark Office has issued a notice of allowance in respect of the Company’s U.S. patent application no. 17/929,756 filed on 9 June 2022, for an advanced Longest Prefix Match (“LPM”) routing algorithm (the “Patent Application”).

The Patent Application covers the implementation of a highly optimized method for routing using an LPM algorithm, designed to support hundreds of thousands of routes while eliminating the need for costly external components such as TCAM (Ternary Content Addressable Memory). This is achieved through Ethernity’s unique firmware, which is embedded into the Company’s pipeline data processor.

The algorithm was originally developed to run on FPGA and form part of Ethernity’s existing UEP offering and is fully applicable for ASIC implementation, offering a scalable and efficient approach to high-performance routing within integrated networking platforms. In essence, this routing Patent Application significantly strengthens the Company’s intellectual property portfolio, reinforcing its position as a technology leader in data processing and access networking.

The Patent Application complements and enhances the Company’s planned ASSP (Application-Specific Standard Product) offering, which is designed to support Layer 3 MPLS routing capabilities in addition to standard Carrier Ethernet features. This new patent, once granted, would build upon Ethernity’s differentiated technology stack, which already includes its patented wireless link bonding and integrated PON functionality. Intellectual property protected by patents is critically important for Tier-1 OEMs, as it safeguards their deployments against potential intellectual property infringement claims, ensuring greater legal and commercial security.

Together, these innovations position the Company to deliver a highly integrated and cost-effective silicon solution that meets the evolving needs of OEMs and service providers looking for advanced, scalable, and programmable access network platforms.

Receipt of a notice of allowance indicates that the claims in the Patent Application are patentable and does not in itself represent a grant of patent rights. The Company anticipates that the patent will be granted upon completion of certain administrative requirements, including payment of the Patent Application, in due course.

Further announcements will be made at the appropriate time.

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About Ethernity Networks

Ethernity Networks (AIM: ENET.L; OTCMKTS: ENETF) provides innovative, comprehensive networking and security solutions on programmable hardware, enhancing telco/cloud network infrastructure capacity. Ethernity’s semiconductor logic offers data processing functionality for various networking applications, alongside patented wireless access technology and fiber access media controllers, all equipped with control software boasting a rich set of networking features. Ethernity’s solutions swiftly adapt to customers’ evolving needs, accelerating time-to-market and facilitating the deployment of 5G over wireless and fiber infrastructure.

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