

19 November 2025

**ETHERNITY NETWORKS LIMITED**  
("Ethernity" or the "Company")

**Grant of Key Longest Prefix Match Routing Patent**

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 it has received confirmation from the Company's US patent attorney that the United States Patent and Trademark Office has granted Ethernity's U.S Patent No. 12425341 (the "Patent"), titled "A method for routing using longest prefix matching" ("LPM"). The Company announced on 20 June 2025 that a notice of allowance had been issued in relation to the Patent application.

The Patent covers the implementation of a highly optimized method for routing using an LPM algorithm, designed to support hundreds of thousands of routes in few clock cycles, 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 form the corner stone of a new ultra highspeed networking design and then was integrated to become 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 Patent significantly strengthens the Company's intellectual property portfolio, reinforcing its position as a technology leader in data processing for routing applications.

The Patent 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 Patent builds 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.

While initially integrated into the UEP product, the patented design's code is optimized for significantly higher performance, capable of operating at 10x the throughput of the UEP design. This speed translates into exceptional lookup times: searching 100,000 IP prefixes in 70ns (FPGA) and 17ns (mid-range ASIC) and dropping to just a few nanoseconds for routes below 10,000. This capability allows it to be used as a standalone IP for extremely low-latency ASIC designs

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

**For further information, please contact:**

**Ethernity Networks Ltd**

David Levi, Chief Executive Officer  
Tomer Assis, Chief Financial Officer

Tel: +972 3 748 9846

**Allenby Capital Limited** (Nominated Adviser and Joint Broker)

James Reeve / Piers Shimmwell (Corporate Finance)  
Amrit Nahal (Sales and Corporate Broking)

Tel: +44 (0)20 3328 5656

**CMC Markets UK plc** (Joint Broker)

Douglas Crippen

Tel: +44 (0)20 3003 8632

**Peterhouse Capital Limited** (Joint Broker)

Lucy Williams / Duncan Vasey

Tel: +44 (0)20 7562 0930

**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.

RNS may use your IP address to confirm compliance with the terms and conditions, to analyse how you engage with the information contained in this communication, and to share such analysis on an anonymised basis with others as part of our commercial services. For further information about how RNS and the London Stock Exchange use the personal data you provide us, please see our [Privacy Policy](#).

END

MSCFFAFWAEISEDF