



Company Profile

We create truly programmable platforms for the future of telecom networks.

About Us:

A leading innovator of software-defined network processing and security solutions on programmable hardware for Carrier Ethernet, IP, and VPN applications across telecom, enterprise and data center markets

Founded:

2004

Publicly Traded:

London Stock Exchange (AIM)
ENET.L

Offering:

Ethernity Networks provides FPGA-based software-defined networking and security products and solutions. This includes powerful data plane offloading and hardware acceleration, improving performance and reducing power consumption and latency. Our field-proven ENET Flow Processor technology offers a rich set of capabilities that are tuneable to the unique needs of our customers, enabling them to outpace their competition.

Market Potential

The telecom industry is undergoing a fundamental revolution from hardware-based proprietary network processing ASICs to open, agile, programmable platforms. Because CPUs are very efficient for control and less optimal for network processing, the market is turning to FPGAs for data layer implementations, which provide programmability with deterministic performance, while requiring minimal power and space. FPGAs represented a market of \$6 billion in 2017, are projected to grow to \$9.8 billion by 2023 (Mordor Intelligence, April 2018). FPGAs for telecom applications are especially relevant in the \$5.9 billion SDN/NFV market, with an expected annual growth rate of 30% through 2021 (IHS, December 2017). This accelerates CPU-intensive pure software solutions and adds significant efficiency to the network.

“FPGAs offer a unique combination of speed, programmability, and flexibility ideal for delivering cutting-edge performance and keeping pace with rapid innovation. FPGAs... deliver efficiency and performance without the cost, complexity, and risk of developing custom ASICs.”

Microsoft Project Catapult

Addressing Customer Challenges

Operators and equipment manufacturers are finding it hard to cope with the ever-growing need to support different networking scenarios and topologies, as well as high bandwidth and low latency, within today's communications networks. Operators must provide uninterrupted service for streaming video, multiplayer gaming, VR/AR, IoT, AI, and Big Data, while end users expect high performance, security, and service agility at a reasonable price. Yet the total cost of ownership for service providers is increasing. While the transition to programmable networks through SDN and NFV provides improved network agility and efficiency than proprietary hardware platforms, it is not economically viable using CPUs alone when supporting a large number of users. By introducing programmable hardware platforms that can accelerate the data path and offload networking and security functions from the CPU, operators can improve performance, programmability, scalability, and flexibility at a fraction of the cost.



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Management:

David Levi –
CEO & Co-Founder
Shavit Baruch –
VP R&D & Co-Founder
Mark Reichenberg –
CFO
Barak Perlman –
CTO
Eugene Zetserov –
VP Products
Rob O'Hara –
VP Worldwide Sales
Critz Chan –
VP Sales, APAC

Contact:

info@ethernitynet.com

European Headquarters –
Tel. +972-8-915-0392

North America –
Tel. +1-408-761-4152

Asia –
Tel. +852-9094-2183

Value Proposition

- **Accelerating Telco/Cloud Networking:**
Our solutions provide deterministic high performance with low power and low latency, an optimal combination for edge virtualization.
- **Stop Burning CPU Cores:**
When networking and security data flows are offloaded to FPGA, the reclaimed CPU cores can be allocated to other functions.
- **Open and Futureproof:**
Our fully-programmable solutions can be ported onto FPGAs from any vendor and use standard DPDK acceleration.
- **Shorten Time-to-Market:**
Ethernity's complete hardware and software solutions enable fast time-to-market for our customers and partners.
- **Affordable and Cost Saving:**
Our patented ENET Flow Processor technology dramatically reduces required logic by up to 80%, enabling the use of smaller die size FPGAs, for more affordable solutions.

Products and Solutions

As part of our goal to deliver end-to-end networking solutions, Ethernity Networks offers manufacturers and system integrator customers high-performance solutions that are based on the company's patented ENET Networking and Security Flow Processor firmware.

Our portfolio of products for telco and enterprise networks includes:

- **FPGA systems-on-chip (SoCs):**
We develop networking software for any FPGA.
- **FPGA SmartNICs:**
We develop software for FPGA-based network interface cards, whether our own ACE-NICs or third-party FPGA SmartNICs.
- **Network appliances:**
We combine our software with COTS hardware for complete turnkey solutions to today's toughest networking challenges. This includes vRouter, vEPC, VPN Gateway, and vBNG appliances.

Our Technology

Ethernity's ENET Flow Processor employs a unique patented technology to achieve high performance despite an incredible 80% reduction in required logic compared to similar networking hardware, enabling an affordable data processing solution on low-cost, smaller FPGAs. This facilitates complete programmability compared with the more rigid offering of an ASIC.