



Through all the social distancing, telecommuting, and teleconferencing, there is one thing that seems to be immutable: 5G is coming. Despite COVID-related delays, conspiracy theories, and outright attacks, the train that is 5G continues to roll toward mass deployment.

Which is all great news as far as Ethernity is concerned. We're ready with 5G solutions that can offer true 5G benchmark performance now, with UPF offload to our ACE-NIC100 FPGA SmartNIC already deep into operator trials. We're working on perfecting our offerings for the CU and the DU, as well, such that before long, it'll be possible for Ethernity to accelerate existing 4G NFV solutions using its FPGA SmartNIC throughout the 5G Open RAN network. These are truly exciting times!

As we do every quarter, we've collected a number of relevant articles, news reports, and posts for you to stay attuned to the topics that matter to Ethernity and to our industry. We hope you'll read this newsletter in good health and safe tidings.

As always, I welcome your feedback at [briank@ethernitynet.com](mailto:briank@ethernitynet.com), and I look forward to the opportunity to work together.

All the best,

Brian Klaff,  
Marketing Director



## Ethernity Perspective



**Article: How FPGAs Enable Wearable Technology**  
Traditional hardware appliances are rapidly being replaced by software-defined networking and network virtualization, offering service providers and others tremendous flexibility in features and vendor choice... [Read More](#)

**Blog Post: Concerned about 5G? Here's Why You Shouldn't Be**  
Misinformation related to 5G can seem insidiously scientific, making it difficult to know what to believe. CEO David Levi explains why there's no need to be scared... [Read More](#)



**Blog Post: Ethernity Demo of 5G UPF Offload**  
The ACE-NIC100 shows high flow counts at high throughput with the required features to implement the 5G data plane efficiently and with high performance... [Read More](#)

**Blog Post: Making NFVI Efficient and Bottleneck-Free**  
Ethernity seamlessly offloads the NFVI functions to the ACE-NIC, while the embedded switch-router engine accelerates performance, achieving optimal traffic flow for VNFs... [Read More](#)



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## Ethernity News

**Press Release: Ethernity Networks Signs Distribution Contract with Techtronics...** [Read More](#)

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**Press Release: Ethernity Networks Recognized as a Vendor to Watch in Gartner Market Trends: Function Accelerator Cards Disrupting Traditional Ethernet Adapter Market Report...** [Read more](#)

**Article: New Ethernet Adapter to Accelerate Network and Security Performance...** [Read More](#)

## Market Intelligence

**Article: The Right Hardware for 5G** by Darren Vallis of Ampere, in a guest blog in Embedded Computing Design  
An excellent case why open solutions are critical for 5G, which is why Ethernity believes FPGAs are an ideal platform for acceleration... [Read More](#)

**Article: Verizon: The fastest 5G in the world – report** by Mike Dano, Light Reading  
The AT&T and T-Mobile numbers in this article confirm Ethernity's analysis that 5G is likely to provide 50Mbps with 1:5 oversubscription (20% availability), meaning that network operators will need a 100Gbps FPGA SmartNIC per 10,000 5G subscribers... [Read More](#)

**Article: Both Verizon and AT&T are told to stop misleading with 5G messaging**  
The two largest US operators have each resorted to exaggerations and lies as they compete to be the country's first and the best 5G network. Maybe they should speak to Ethernity about accelerating their networks instead of all the bluster... [Read More \(Verizon\)\(AT&T\)](#)

**Article: Mavenir and AltioStar join forces to exploit the US OpenRAN opportunity** by Scott Bicheno, in Telecoms.com  
If these two would run their joint O-RAN software solutions over Ethernity's ACE-NIC100 FPGA SmartNIC, they could reduce CAPEX by up to 80%... [Read More](#)



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