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RECONFIGURABLE COMPUTING

PRESS RELEASE

Napatech Link Programmable SmartNICs Provide Massive Parallel Processing Capacity for Compute-Intensive Applications

Link Programmable SmartNICs Give Users the Ability to Define Custom FPGA-based Computation

COPENHAGEN, Denmark, December 19, 2019 – Napatech™ (OSLO: NAPA.OL), the leading provider of reconfigurable computing platforms, announced today the immediate availability of Link™ Programmable SmartNICs for compute-intensive workloads. Built upon Napatech's industry-proven hardware platform, the Link™ Programmable family of cards enables OEMs and end users to develop and deploy their own custom FPGA computation solutions based on industry-standard tools.

Link™ Programmable SmartNICs are ideally suited for computationally intense and time-critical workloads, such as computer vision, video encoding, high-frequency trading, cryptocurrency mining, satellite image processing, data mining, audio/video DSP, encryption/decryption, compression/decompression, and high-speed network data plane acceleration. The platform has superior design in performance per watt and cooling technologies. Using FPGAs for CPU inline and look-aside acceleration can enable up to 90x higher performance than general-purpose CPUs on key workloads and over 4x higher inference throughput than GPU-based solutions.

Click to Tweet: Napatech's Link Programmable #SmartNICs enable massive parallel processing capacity for compute-intensive applications at a fraction of the cost: https://tinyurl.com/thhf3u7

The Link™ Programmable SmartNICs offer multiple benefits to users:

- **Fully programmable with immense flexibility:** Provides increased performance, taking advantage of hardware parallelism with substantial cost savings over custom silicon.
- **PCI-SIG certified and linkable:** With focus on power, thermal and quality, 8+ SmartNICs can fit a standard COTS server, offering terabits/second, linked via onboard interconnects and/or via PCIe for massive parallel processing capacity.
- **A flexible, configurable platform based on industry standard tools:** Built around Xilinx UltraScale+ XCVU5P, the flagship platform is fully supported by the Xilinx Vivado® Design Suite for rapid prototyping and product maturing. The platform is flexible and can be configured with various types of memory banks and FPGA chips – for example, XCVU7P or XCVU9P.
- **New possibilities:** The solution opens up Napatech cards to customers and users who wish to promote their own solutions. It also makes Napatech SmartNICs available to a new ecosystem of software and IP providers who have emerging applications and use cases that benefit from being deployed on a high-performance, multi-hundred GigE solution.

Philip Søeberg, Product Management, Napatech, said:
"Unlike other providers of blank and programmable cards, Napatech's solution offers a platform where performance, power and reliability are unsurpassed. With 8+ cards in a single COTS server, the massive parallel processing capacity is comparable to clustered HPC at a fraction of the cost. Thermal design imposes zero airflow requirements to the server. 15 years of hardware design have yielded a rock-solid platform that Napatech now is making available for everyone to enjoy."

For more information about Link™ Programmable, see www.napatech.com/products/link-programmable

About Napatech
Napatech helps companies to reimagine their business by bringing hyperscale computing benefits to IT organizations of every size. We enhance open and standard virtualized servers to boost innovation and release valuable computing resources that improve services and increase revenue. Our Reconfigurable Computing Platform™ is based on a broad set of FPGA software for leading IT compute, network and security applications that are supported on a wide array of FPGA hardware designs.

No forward-looking statements
This press release may contain forward-looking statements which are only predictions and may differ materially from actual future events or results due to a variety of factors, including but not limited to, business conditions, trends in the industry and markets, global economic and geopolitical conditions, macro-economic factors, and other risks and uncertainties set forth in Napatech's reports. The matter discussed in this release is based on current expectations and may be subject to change. Napatech will not necessarily update this information.

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