

SmartNICs for Reconfigurable Computing

PRODUCT OVERVIEW

BUILD AFFORDABLE, YET HIGH-PERFORMANCE NETWORK APPLIANCES

Napatech SmartNICs for network monitoring and security applications enable OEM vendors to build affordable, yet high-performance network analysis systems using standard servers. The intelligent features in Napatech SmartNICs are designed to boost performance, while the annual improvement in performance in standard servers ensures scalability for the future. This allows OEM vendors to focus on differentiating application software rather than hardware development.

PORTFOLIO: 1 Gbps TO 100 Gbps



NT200A01-SCC-2x100



NT80E3-2-PTP



NT40E3-4-PTP



NT40A01-SCC-4x1

ACCELERATE PERFORMANCE

Monitor

- At full speed with zero data loss
- Up to 100 Gbps

Analyze

- Who, what, when and how much data?
- Both real-time and recorded data

Secure

- Real-time data both in-line and off-line
- Immediate reaction

Manage

- Performance in real time
- Without missing the details

Optimize

- Data delivery and billing
- Policy enforcement

SCALE AFFORDABLY

High Performance

- Wire-speed packet capture and transmission
- Intelligent features for acceleration and off-load

Affordable

- Use standard servers as hardware platform
- Lower cost, risk and time-to-market

Scalable

- Scale performance by number of CPU cores
- CPU performance increasing annually

Reliable

- Field-proven and certified SmartNICs
- NEBS level-3 compliance





Upgradable

- Upgrade in the field with new features
- Extend life of existing network appliances

SMARTNIC PRODUCTS

SmartNIC		Ethernet Speed	Network Ports	Port Form-factor	Time Sync. Ports	Onboard RAM	PCI Interface	Size
	NT200A01-SCC-2x100/40	100 Gbps 40 Gbps	2	QSFP28	2 internal 2 external	12 GB	PCIe Gen3 16-lane @ 8 GT/s	Full-height ½-length PCI
	NT200A01-NEBS-2x100/40	100 Gbps 40 Gbps	2	QSFP28	2 internal 2 external	12 GB	PCIe Gen3 16-lane @ 8 GT/s	Full-height ½-length PCI
	NT200A01-SCC-2x100	100 Gbps	2	QSFP28	2 internal 2 external	12 GB	PCIe Gen3 16-lane @ 8 GT/s	Full-height ½-length PCI
	NT200A01-NEBS-2x100	100 Gbps	2	QSFP28	2 internal 2 external	12 GB	PCIe Gen3 16-lane @ 8 GT/s	Full-height ½-length PCI
	NT100E3-1-PTP	100 Gbps	1	CFP4	2 internal 1 external	8 GB	PCIe Gen3 16-lane @ 8 GT/s	Full-height ¾-length PCI
	NT100E3-1-PTP-NEBS	100 Gbps	1	CFP4	2 internal 1 external	8 GB	PCIe Gen3 16-lane @ 8 GT/s	Full-height ¾-length PCI
	NT200A01-SCC-2x40	40 Gbps	2	QSFP28	2 internal 2 external	12 GB	PCIe Gen3 16-lane @ 8 GT/s	Full-height ½-length PCI
	NT200A01-NEBS-2x40	40 Gbps	2	QSFP28	2 internal 2 external	12 GB	PCIe Gen3 16-lane @ 8 GT/s	Full-height ½-length PCI
	NT80E3-2-PTP	40 Gbps	2	QSFP+	2 internal 1 external	8 GB	PCIe Gen3 16-lane @ 8 GT/s	Full-height ¾-length PCI
	NT80E3-2-PTP-NEBS	40 Gbps	2	QSFP+	2 internal 1 external	8 GB	PCIe Gen3 16-lane @ 8 GT/s	Full-height ¾-length PCI
	NT40E3-4-PTP	1/10 Gbps 100 Mbps	4	SFP/SFP+	2 internal 1 external	4 GB	PCIe Gen3 8-lane @ 8 GT/s	Full-height ½-length PCI
	NT40E3-4-PTP-NEBS	1/10 Gbps 100 Mbps	4	SFP/SFP+	2 internal 1 external	4 GB	PCIe Gen3 8-lane @ 8 GT/s	Full-height ½-length PCI
	NT20E3-2-PTP	1/10 Gbps 100 Mbps	2	SFP/SFP+	2 internal 1 external	4 GB	PCIe Gen3 8-lane @ 8 GT/s	Full-height ½-length PCI
	NT20E3-2-PTP-NEBS	1/10 Gbps 100 Mbps	2	SFP/SFP+	2 internal 1 external	4 GB	PCIe Gen3 8-lane @ 8 GT/s	Full-height ½-length PCI
	NT40A01-SCC-4x1	1 Gbps 100 Mbps	4	SFP/dual-rate SFP+	2 internal 1 external	4 GB	PCIe Gen3 8-lane @ 8 GT/s	Full-height ½-length PCI
	NT40A01-NEBS-4x1	1 Gbps 100 Mbps	4	SFP/dual-rate SFP+	2 internal 1 external	4 GB	PCIe Gen3 8-lane @ 8 GT/s	Full-height ½-length PCI

SMARTNIC PRODUCTS

SmartNIC		Ethernet Speed	Network Ports	Port Form-factor	Time Sync. Ports	Onboard RAM	PCI Interface	Size
	NT4E2-4T-BP	100/1000 Mbps	4	RJ45	N/A	1 GB	PCIe Gen2 8-lane @ 5 GT/s	Full-height ½-length PCI
	NT4E2-4-PTP	100/1000 Mbps	4	SFP	2 internal 1 external	2 GB	PCIe Gen2 8-lane @ 5 GT/s	Full-height ½-length PCI
	NT4E-4-NEBS	10/100/1000 Mbps	4	SFP	2 internal 1 external	2 GB to 4 GB	PCIe Gen1 8-lane @ 2.5 GT/s	Full-height ½-length PCI
	NT4E-4-STD	10/100/1000 Mbps	4	SFP	N/A	1 GB to 4 GB	PCIe Gen1 4-lane @ 2.5 GT/s	Full-height ½-length PCI

COMPANY PROFILE

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.

Additional information is available at www.napatech.com

Napatech. RECONFIGURABLE COMPUTING

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