xFast Accelerator cards

RAYMAX
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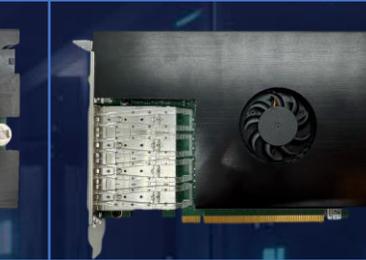
The xFast series accelerator cards deliver robust programmability and parallel processing capabilities based on FPGA/CPU, while ARM cores provide control and computing support. This series is suitable for various hardware acceleration scenarios, such as Infrastructure Processing Units (IPUs) and Smart NICs, and is widely applied in fields including cybersecurity, 5G networks and base stations, 5G application acceleration, data center computing, artificial intelligence, signal processing, fintech, radar systems, and network encryption/decryption.

Model:	xFast-4000-A	xFast--6000	xFast-2000-CN106 Arm	xFast-2000-CN103 Arm	xFast-4000
Ports:	2*200G	1*400G 1*200G	2*100G	200G/2*100G	2*200G
Chip:	Intel Agilex 7 FPGA F-Series	Xilinx Versal XCVP1202	Marvel CN106 DPU	Marvel CN106 DPU	Intel Agilex 7 FPGA F-Series
Speeds:	2*200GE QSFP56 RJ45	2*200GE QSFP56 RJ45	2*100Gbps QSFP28+ RJ45	QSFP56 200G RJ45	2*200GE QSFP56 RJ45
PCIe interface:	PCIe 5.0 x16	PCIe 5.0 x8	PCIe5.0*8(服务器端PCIe 5.0x4接口)	PCIe5.0*8(服务器端PCIe 5.0x4接口)	PCIe 4.0 x16
Connector Type:	2*200GE QSFP56 HPS Interfaces: Ethernet, UART, and eMMC	400GE QSFP112 200GE QSFP56 HPS Interfaces: Ethernet, UART, and eMMC	2*100Gbps QSFP28+ RJ45	QSFP56 200G RJ45	2*200GE QSFP-DD HPS Interfaces: Ethernet, UART, and eMMC
Memory:	8GB+4GB(HPS)	LPDDR 16GB	Max 128G	Max 128G	8GB+4GB(HPS)
Form Factor:	Full-Height, Half Length	Full-Height, Half Length	Full-Height, Half Length	Half Height, Half Length	Full-Height, Half Length
Heat Sink:	Active/Passive	Active/Passive	Active/Passive	Active/Passive	Active/Passive
Warranty :	1 year	1 year	1 year	1 year	1 year

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Model：	xFast-2000-13P	xFast-2000-9P	xFast-2000-5P	xFast-1000-13P	xFast-1000-9P
Ports：	2*100G	2*100G	2*100G	4*25G	4*25G
Chip：	Xilinx VU13P	Xilinx VU9P	Xilinx VU5P	Xilinx VU13P	Xilinx VU9P
Speeds：	100/50/40/25/10/1GbE	100/50/40/25/10/1GbE	100/50/40/25/10/1GbE	25/10/1GbE	25/10/1GbE
PCIe interface：	PCIe x16	PCIe x16	PCIe x16	PCIe x16	PCIe x16
Connector Type：	QSFP28,DAC,AOC	QSFP28,DAC,AOC	QSFP28,DAC,AOC	QSFP,DAC,AOC	QSFP,DAC,AOC
Memory：	32GB	32GB	32GB	32GB	32GB
Form Factor：	Full-Height, Half Length	Full-Height, Half Length	Full-Height, Half Length	Full-Height, Half Length	Full-Height, Half Length
Heat Sink：	Active/Passive	Active/Passive	Active/Passive	Active/Passive	Active/Passive
Warranty：	1年	1年	1年	1年	1年

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Model：	xFast-1000-5P	xFast-2000	xFast-2000-G2	xFast-1000x16	xFast-500x16
Ports：	4*25G	2*100G	2*100G	4*25G	2*25G
Chip：	Xilinx VU5P	Xilinx vu3p	Xilinx vu3p	Xilinx vu3p	Xilinx vu3p
Speeds：	25/10/1GbE	100/50/40/25/10/1GbE	100/50/40/25/10/1GbE	25/10/1GbE	25/10/1GbE
PCIe interface：	PCIe x16	PCIe x16	PCIe x16	PCIe x16	PCIe x16
Connector Type：	QSFP,DAC,AOC	QSFP28,DAC,AOC	QSFP28,DAC,AOC	SFP28,DAC,AOC	SFP28,DAC,AOC
Memory：	32GB	8GB	8GB	8GB	8GB
Form Factor：	Full-Height, Half Length	Half Height, Half Length	Half Height, Half Length	Half Height, Half Length	Half Height, Half Length
Heat Sink：	Active/Passive	Active/Passive	Active/Passive	Active/Passive	Active/Passive
Warranty ：	1 year	1 year	1 year	1 year	1 year

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Model：	xFast-1000x8	xFast-1000	xFast-400	BXW500	BIW500
Ports：	4*25G	4*25G	4*10G	2*25G	2*25G
Chip：	Xilinx vu3p	ku5p	Xilinx KU040/KU060	Xilinx ku5p+E810	Intel E810+Intel S10 FPGA
Speeds：	25/10/1GbE	25/10/1GbE	10/1GbE	25/10/1GbE	25/10/1GbE
PCIe interface：	PCIe x16	PCIe x8	PCIe x8	PCIe x8	PCIe x16
Connector Type：	SFP28,DAC,AOC	SFP28,DAC,AOC	SFP+,DAC,AOC	SFP28,DAC,AOC	SFP28,DAC,AOC
Memory：	4GB	8GB	8GB	4GB	8GB+4GB
Form Factor：	Half Height, Half Length	Half Height, Half Length	Half Height, Half Length	Half Height, Half Length	Full-Height, Half Length
Heat Sink：	Active/Passive	Active/Passive	Active/Passive	Active/Passive	Active/Passive
Warranty ：	1 year	1 year	1 year	1 year	1 year

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Empowered by an onboard CPU, the Raymax xFast-Thor Accelerator Card enables offloading and acceleration for a variety of applications in smart NIC/DPU scenarios, including virtualization, edge networking, storage, and security encryption/decryption. The Thor Card provides a secure and reliable acceleration platform for diverse applications across multiple environments. The product series supports various port configurations and speeds, such as dual-port 25GbE, quad-port 25GbE, dual-port 100GbE, and single-port 200GbE, among others.

Form Factor	**Full-Height, Half Length**
CPU	Intel Xeon-Silver CPU 20 Cores
memory	64GB/128GB/256GB/512GB
Ports	1 Gigabit Management Port Dual-port 25GbE / Quad-port 25GbE / Single-port 100GbE / Dual-port 100GbE / Dual-port 200GbE
Power	External Power Supply
Operating System	Windows，Linux
Temperature	Operating Temperature：0℃ to 50℃ Storage Temperature：-10℃ to 60℃
Technical Support & Warranty Period	1 year

Highlights

- Secure and reliable acceleration platform
- Supports network offload
- Supports storage offload
- Supports virtualization
- Supports RDMA
- Supports network security encryption and decryption
- PCIe powered, requires external power supply
- Supports customized development