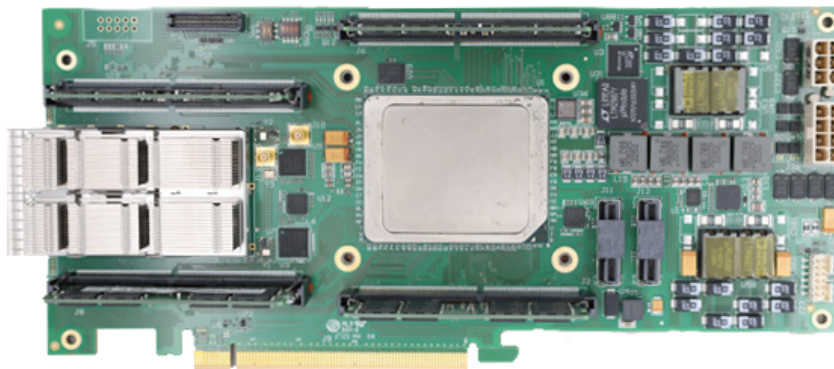


# MPAC 7000 CARD

## REVOLUTIONISING HIGH-SPEED DATA PROCESSING

Telesoft are proud to announce the launch of our latest PCI Express (PCIe) processing card - the MPAC 7000. As the next generation of our high-performance processing cards, the MPAC 7000 sets a new standard for speed, efficiency, and reliability when working with vast data sets.

Powered by Intel's Agilex® 7 I-Series FPGA, the MPAC 7000 can handle 400 Gigabit Ethernet (400GbE) connections and perform real-time line-rate data processing, superseding both its predecessors and other existing products on the market. Telesoft engineered this card to meet the needs of the most demanding environments in areas such as 5G networking, high-frequency trading, and carrier-grade network monitoring.



### TECHNICAL SPECIFICATIONS

Physical	Dual Slot Full Height 3/4 Length (PCI Express® Card Electromechanical Specification)
FPGA	Intel Agilex® 7 I-Series (Core speed grade -2: XCVR speed grade -1)
Arm HPS	Quad-core 64-bit Arm Cortex-A53
Monitoring Interface	<ul style="list-style-type: none"> <li>• 2 x QSFP-DD Interfaces</li> <li>• 2 x 400GbE, or 2 x 200/100/50/25/10GbE, or</li> <li>• 8 x 100GbE or 8 x 10/25Gbe with breakout cables</li> </ul>
Host	<ul style="list-style-type: none"> <li>• PCIe gen5 x 16 interface, direct to hard IP</li> <li>• PCIe 5.0 x 16 or 2 x PCIe 5.0 x 8 bifurcation</li> <li>• 2nd PCIe 5.0 x 16 interface via MCIO connector</li> <li>• CXL v1.1</li> </ul>
Memory	• 4 x SODIMM slots, each supporting up to 32GB DDR4 SDRAM giving 128GB total

With combined high-speed connectivity, real-time processing capabilities, and high bandwidth memory, Telesoft will use the MPAC 7000 card to increase capability and drive development in both new and existing products, including 200G CERNE, 800G FlowProbe, Finance Probe, & OPRA Decode Engine.

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## ROADMAP

- Embedded Processor**  
Quad-core ARM Cortex A53 support Module board to provide peripheral devices - e.g. Ethernet, SD card, etc.
- QRNG - Quantum Random Number Generator**  
Provides true random numbers for encryption, AI, and other algorithms.
- Cesium Atomic Clock**  
Provides ability to continue to provide accurate timestamping and synchronisation when input clocks fail (e.g. PTP / GPS etc).
- CXL - Compute Express Link**  
Provides low-latency, high-bandwidth, cache coherent interface with the host CPU.
- 2 x 400G**  
Support for 2 x QSFP-DD interfaces, each running 400Gbps.

