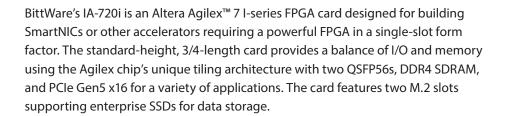


IA-720i PCIe FPGA Card



Agilex™ FPGA card with PCIe Gen5 x16



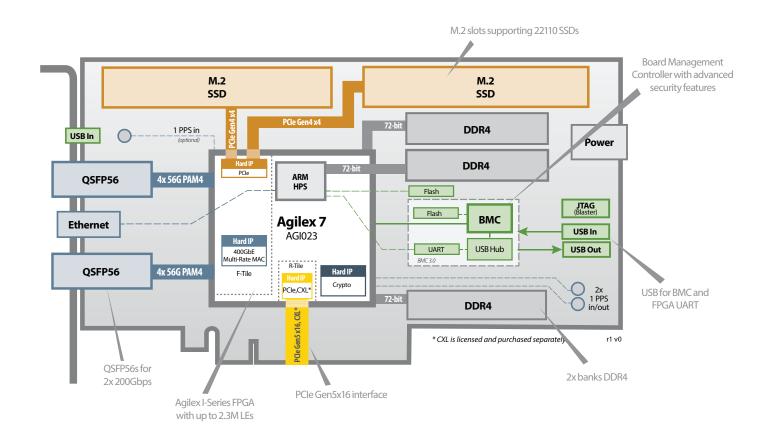




key features

2x SSDs 22110 M2s

PCle Gen5 Single Width



Additional Services

Take advantage of BittWare's range of design, integration, and support options



Customization

Additional specification options or accessory boards to meet your exact needs.



Server Integration

Available pre-integrated in our <u>TeraBox servers</u> in a range of configurations.



IP and Solutions

Our portfolio of IP and solutions reduce risk for development and deployment.



Service and Support

BittWare Developer Site provides online documentation and issue tracking.

Board Specifications

FPGA	Altera Agilex 7 I-Series: AGI023 Core speed grade -1: I/O speed grade -1 for CXL (CXL IP is licensed and purchased separately) FPGA includes ARM HPS Hard crypto blocks
ARM HPS	 Dedicated 72-bit DDR4 Dedicated Flash memory for booting ARM Ethernet access via front-panel RJ45 (optional)
On-board Flash	2Gbit Flash memory for booting FPGA
External memory	2x 72-bit DDR4 banks (discrete components), up to 16GB each (32GB total)
Host interface	x16 Gen5 interface direct to FPGA, connected to PCle hard IP
M.2 SSD Slots	• 2x slots for NVMe PCle M.2 22110 SSDs
QSFP56 cages	 QSFP56 cages supporting a total of 2x 200/100/50/25/10GbE Multi-rate hard MAC supports all combinations Jitter cleaner for network recovered clocking
External clocking	2x 1 PPS in/out (in-board)1x 1PPS in (in-board)
USB	USB access to BMC, USB-UART

Board Management Controller	Power sequencing and reset Voltage, current, temperature monitoring Protection shut-down Clock configuration Low bandwidth BMC-FPGA comms with SPI link USB 2.0 PLDM support Card-level security BMC Root of Trust BMC and FPGA secure boot BMC and FPGA secure upgrade Key management
Cooling	Standard: single-width passive heatsink
Electrical	 On-board power derived from PCIe slot and external power connector Power dissipation is application dependent Max power consumption 150W
Environmental	Operating temperature: 5°C to 35°C
Quality	Manufactured to IPC-A-610 Class 2 RoHS compliant CE, FCC, UKCA & ICES approvals
Form factor	Standard-height, 3/4-length, single-slot PCle card Size: 111.15mm x 254.00mm (4.376in x 10.000in)

Development Tools

System development	BittWare SDK including libraries and board monitoring utilities
Application development	Supported design flows - Intel High-Level Synthesis (C/C++) and Quartus Prime Pro (HDL, Verilog, VHDL, etc.)







r1 v0 | last revised 2025.10.07

© BittWare 2025

