

Interfaces

- x16 Gen4 PCIe card edge Interface
 - Backwards compatible with Gen3
 - Supports bifurcation as two x8 Gen4/Gen3
 - Gen2 and Gen1 supported via link down-training
- QSFP-DD network interface port with hard IP support for:
 - PAM4: 1x 400G
 - PAM4: 2x 200G
 - PAM4: 4x 50G
 - NRZ: 1x 200G
 - NRZ: 2x 100
 - NRZ: 2x 50G/40G
 - NRZ: 8x 25G/10G
- Unified micro-USB 2.0 interface with on-board USB hub for:
 - Integrated USB Blaster II
 - UART interface to HPS or FPGA fabric (DIP switch selectable)
 - UART interface to module control CPLD for card monitor and remote board control
- 20-pin header for HPS GigE network interface (requires full-height bracket with RJ-45 adapter)
- SMB coaxial connector for external clock and PPS reference input

Product Ordering Codes

Stocked SKU: AGF-NC220-B74-00; 027 FPGA with -2 core and -2 XVRs, with HPS support, 4GB x 3 DDR4, 16GB eMMC, passive heat sink

For other densities and customized module configuration, contact Hitek

For sales or more information:



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Memory, Storage and Configuration Interfaces

- Three 72-Bit DDR4 interfaces, 4GB or 8GB each component memory
- One DDR4 port routed to HPS accessible banks
- 16/32GByte eMMC storage device for HPS
- 2Gbit QSPI flash for FPGA configuration connected to the module control CPLD
- x8 AVST configuration interface from module control CPLD
- 64Mbit QSPI flash and 128Mbyte HyperRAM for module control CPLD and BMC controller

On-board Development and Debug Support

- Integrated USB Blaster II
- UART access to the FPGA and module control CPLD
- Temperature, voltage and current monitoring sensors to module control CPLD
- Module input power measurement for profiling and verification in target servers/environment
- Automatic over-temp FPGA de-configuration
- Support for server Board management controller (BMC) with MTCP protocol support via SMBus through integrated module control CPLD processor
- Tri-color module status LED at PCIe bracket edge
- Multiple on-board diagnostic and status LEDs

Power and Heatsink Options

- PCIe edge power with support for 6-Pin PCIe/ATX connector power input
- Options for single-slot and double-slot passive and active heat sinks
- 75W with PCIe edge power
- 100W with 6-pin PCIe/ATX connector power