

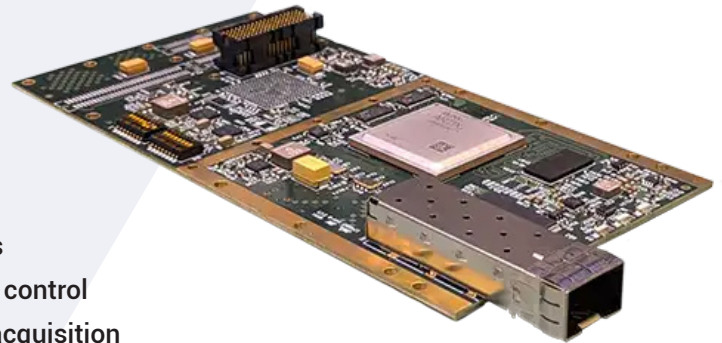
GAZL XMC NODE CARD

XMC5565APIORC-2001-02

Ultra-high-speed, fiber optic network
for distributed processing

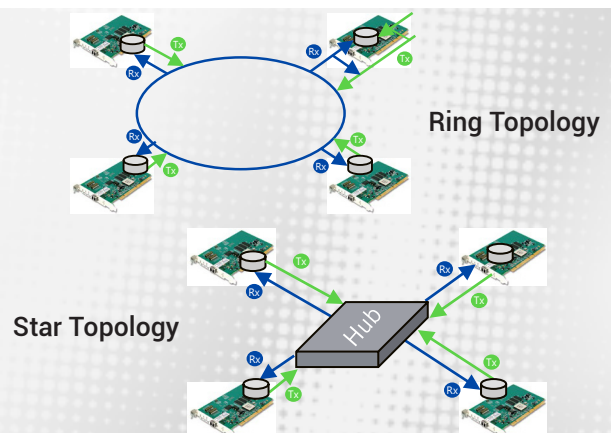
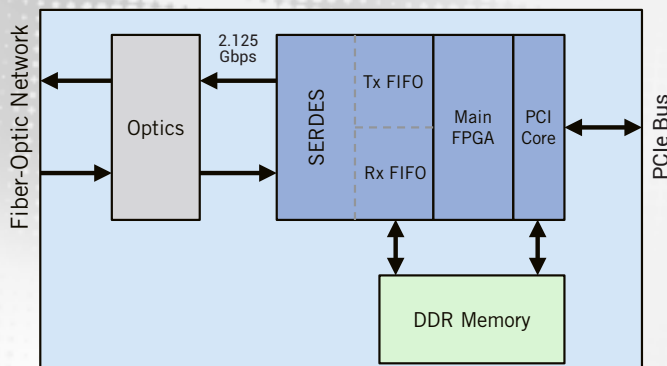
IDEAL APPLICATIONS

- Aircraft simulators
- Automated testing systems
- Ship and submarine simulators
- Aluminum rolling mill
- Power plant simulators
- Engine test stands
- Industrial process control
- High-speed data acquisition
- PLCs



PRODUCT HIGHLIGHTS

- ⊕ Low latency, deterministic data transfer for high performance and predictability
- ⊕ Create a single, shared memory network across diverse systems that is OS and bus structure independent
- ⊕ Minimal processor overhead
- ⊕ Error management and detection
- ⊕ Enables scalable network of up to 256 nodes
- ⊕ 256 MB of SDRAM



FEATURES

RAM	256 MB of SDRAM
DATA TRANSFER	Non-redundant Transfer Rate: 43 MByte/s (single longword accesses) to 170 MByte/s (64 byte bursts) Redundant Transfer Rate: 20 MByte/s (single longword accesses) to 87 MByte/s (64 byte bursts)
PCI / PCIe TRANSFER RATE	132 MByte/s (33MHz/32-bit bus) 264 MByte/s (33 MHz/64-bit bus or 66 MHz/32-bit bus) 528 MByte/s (66 MHz/64-bit bus) PCI Express transfer rate: 4 lanes at 2.5 Gbit/s Optional: PCI Express Gen 3.0 transfer rate: 4 lanes at 8 Gbit/s
CABLING	Multi-mode simplex / duplex cables up to 1,640 feet (500m)
OS SUPPORT	Linux, Windows 10, Windows 11, VxWorks, Windows Server 2022
POWER REQUIREMENT	+3.3 VDC (±5%), 0.1A typical, 0.2A max +12 VDC (±5%), 0.8A typical, 1.1A max
NETWORKING	Removable SFP Transceiver
THERMAL MANAGEMENT REQUIREMENT	300LFM
MECHANICAL	Dimensions (L x W x D): 149mm x 74mm x 14mm
MTBF	1,571,709 hours
ENVIRONMENTAL	Operating Temp.: 0°C to +65°C (with forced air cooling) Storage Temp.: -40°C to +85°C Humidity: 20% to 80% RH, non-condensing
COMPLIANCE	Designed to meet: RoHS, CE, FCC, ANSI

ORDERING INFORMATION

Contact us at 855.365.2188 or visit jsquared.com/general-inquiries to begin the ordering process.

