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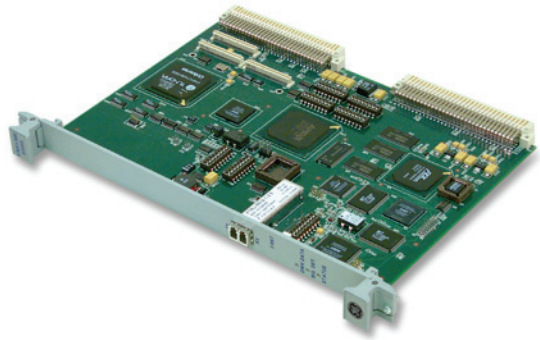
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Find the *Abaco Systems / VMIC VMIVME-5565-110000* at our website: ***Click HERE***

GE
Intelligent Platforms



# VME-5565

# Reflective Memory VME Node Card

## Ultra-high-speed, fiber optic network for distributed processing using Reflective Memory

As a longstanding leader in Reflective Memory (RFM) technology, GE Intelligent Platforms understands the demands of real-time networks. We know that certain types of applications require the determinism, implementation simplicity, and lack of software overhead that ubiquitous technologies such as Ethernet can't deliver.

Our VME-5565 Reflective Memory node card in VMEbus form factor is engineered specifically to provide highly deterministic, tightly timed performance for a variety of advanced networking applications that need to deterministically move large amounts of data fast and share that data in real time among similar or disparate network nodes.

GE's RFM products are designed to fit into existing hardware and operating system environments, integrating diverse hardware platforms running different operating systems into a single, shared memory network.

### Fast solution to higher performance

The VME-5565 Reflective Memory node card is well-suited for industrial control applications in which implementation simplicity, a lack of software overhead, and bus structure and operating system independence are key factors, such as:

- 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

PCI Express, PMC, PCI and VME node interface cards are available, and we support a wide variety of operating systems.

### Best customer experience

At GE, we understand that there is more to providing solutions than speeds and feeds, and therefore, we complement the performance and practical aspects of our RFM products with long-term product availability, best-in-class domain expertise, and a focus on exceptional customer service. We offer:

- A variety of form factors, operating system support, and configurations for network flexibility
- Ease of integration and migration
- Ease of use
- Long-term availability
- Robust lifecycle management
- Global support and services from GE, the leader in RFM technology

| FEATURE | BENEFIT |
|---|---|
| **Low latency, deterministic transfer rates** | • Achieve predictable, high-performance application deployment |
| **Operating system and bus structure independence** | • Integrate diverse systems into a single, shared memory network |
| **Transparent data transfers between nodes** | • Eliminates processor overhead<br>• Delivers higher levels of performance |
| **Error management and detection** | • Protects against lost dataspace. |
| **RFM network supports up to 256 nodes** | • Enables the scalability to build the network to fit the application and add more nodes when needed |
| **2.12Gbaud serial connection speed** | • Transfer data faster between nodes |
| **128 or 256Mbytes of onboard SDRAM** | • Share large amounts of data |

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# VME-5565 – Reflective Memory VME Node Card

## Specifications

**RAM**
- 128 MByte

**Transfer Specifications**
- 43 MByte/s (single longword accesses) to 170 MByte/s (64 byte bursts) non-redundant transfer rate
- 20 MByte/s (single longword accesses) to 87 MByte/s (64 byte bursts) redundant transfer rate

**PCI Transfer Rate**
- 132 MByte/s (33MHz/32-bit bus), 264 MByte/s (33 MHz/64-bit bus or 66 MHz/32-bit bus) or 528 MByte/s (66 MHz/64-bit bus) and throttles back to available link data rate as FIFOs begin to fill
- PCI Express transfer rate: 4 lanes at 2.5 Gbit/s

**Environmental Specifications**
- Operating: 0°C to +65°C, with forced air cooling
- Storage: -40°C to +85°C
- Relative humidity: 20% to 80%, non-condensing

**Power Requirements**
- 0.7A typical, 1.5A max at +3.3VDC (±5 percent); 0.7A typical, 1.8A max at +5VDC (±5 percent)

**Mechanical**
- Form factor: VME

**Cooling Requirements**
- 300LFM

**MTBF (Bellcore)**
- 1,307,078 hours

**Cables**
- Simplex cable up to 820 feet (250 m)
- Duplex cable up to 721 feet (219.7608 m)

**Operating Systems Support**
- Microsoft® Windows® XP
- Microsoft Windows 7
- Linux®
- VxWorks®
- Solaris®

**Compliance**

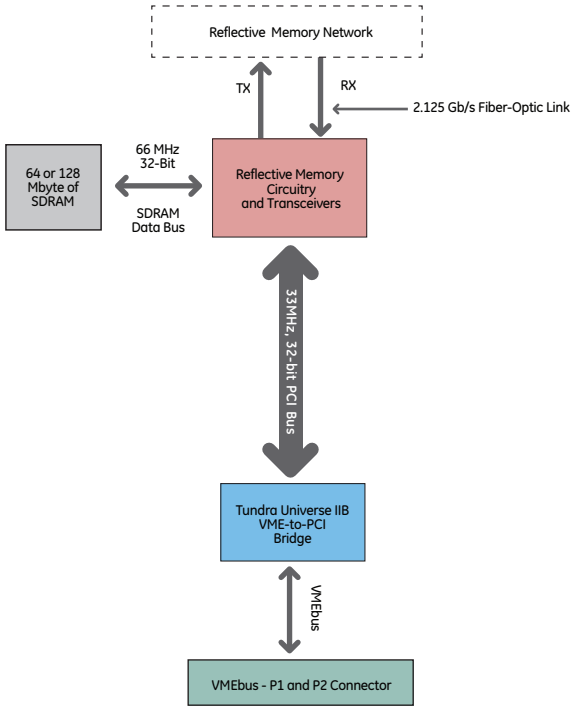
**CE**
- BS EN55024
- BS EN55022, Class A
- IEC61000 4 2
- IEC61000 4 3

**European Union**
- BS EN55024 (1998 w A1:01 & A2: 03)
- CISPR22, EN55022 (Class A)
- CISPR11, EN55011 (Class A, Group 1)

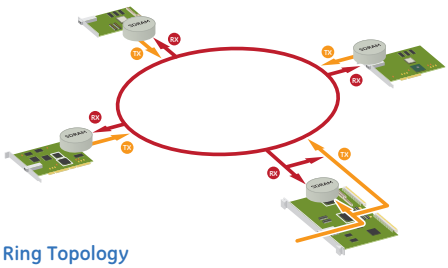
**United States**
- FCC Part 15, Subpart B, Section 109, Class A
- CISPR 22 (1997), Class A
- ANSI C63.4 (2003) method

**Australia/New Zealand**
- AS/NZS CISPR 22 (2002) Class A
- EN55022 (1998) Class A

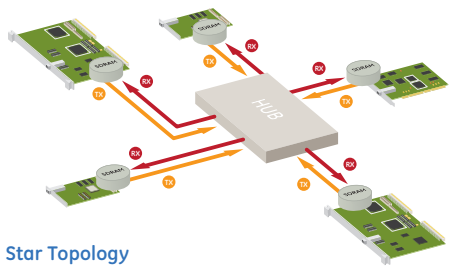
## Block Diagram




## Application Diagram



Ring Topology




Star Topology

**Japan**
- VCCI (April 2005) Class A
- CISPR 22 (1997) Class A
- ANSI C63.4 (2003) method

**Canada**
- ICES 003 Class A
- CISPR 22 (1997) Class A
- ANSI C63.4 (2003) Method

## Ordering Information

| | |
|---|---|
| **VMIVME-5565-110000** | 128 MByte Memory, Multimode Transmission |
| **VMIVME-5565-111000** | 128 MByte Memory, Single Mode Transmission |


### GE Intelligent Platforms Contact Information

Americas: **1 800 433 2682** or **1 434 978 5100**

Global regional phone numbers are listed by location on our web site at **www.ge-ip.com/contact**

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