



# PEAZ-5565 Reflective Memory Analyzer

Add world-class network analytics to your high performance reflective memory network

GE Intelligent Platforms' PEAZ-5565 Reflective Memory Analyzer is a powerful analytic tool for our industry-leading 5565 Reflective Memory (RFM) product family. By creating a window into network traffic, the analyzer allows you to deep dive into your application code to start solving problems.

RFM is the best solution for many 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. It is ideal for applications in which implementation simplicity, a lack of software overhead, and bus structure and operating system independence are key factors, such as:

- Simulation & Training
- Industrial Process Control
- Sonar/Radar
- Data Streaming and Acquisition

For 15 years GE has been a leader RFM network technology. Designed for advanced networking applications that require high performance, fast, deterministic information exchange, and allow sharing of that data in real-time – our RFM platform combines innovative hardware, firmware, and software capabilities into a package that allows you to easily build sophisticated distributed applications.

The PEAZ-5565 Reflective Memory Analyzer adds analytic tools to the GE 5565 RFM product family. With sophisticated event triggering, storage, and visualization options, the analyzer minimizes the time required to troubleshoot and optimize simple or complex RFM networks. Coupled with support for Linux- or Windows-based applications and event triggers like memory and address or range, data pattern, source ID, packet type and error conditions, the PEAZ-5565 lets you stay focused on your systems performance.

### 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
Local or Remote monitoring options	Provides the flexibility to locally monitor the system or to conveniently monitor the system remotely with access to the system from anywhere
Flexible Triggers	Offers many variable options to debug and determine issue points (example - memory address or range, error conditions, packet type - Interrupt/data, etc.)
Large Trace Buffer	Enables storing of maximum size ring packets for access/analysis when needed
Complex Triggers	Permits data to be stored, retrieved and even converted to a simple text format to share with remote teams to save valuable development time
Local or remote Analyzer package installation	Installation flexibility so that you can either install locally with hardware or install remotely and communicate over Ethernet in a client-server architecture
Support for capturing and inspecting bad packets	Facilitates failure isolation



# PEAZ-5565 Reflective Memory Analyzer

## Specifications

### Trace Buffer Size

- 32k transactions

### Operation Mode

- Local node (SW installed locally with HW)
- Remote node (SW connected to analyzer via Ethernet)

### Operating Systems Support

- Windows 7 (32 or 64 bit)
- Fedora Core 13 and above (32 or 64 bit)

### PCI Transfer Rate

- PCI Express 2.0: 4 lanes at 2.5 Gbit/s

### Environmental Specifications

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

### Power Requirements

- 0.7A max at +12 VDC (± 5 percent) and 0.6A max at +3.3 VDC

### Mechanical

- Dimensions: 6.6" long, 2.713" tall
- Weight: 0.2 lbs

### Cooling Requirements

- 300LFM

### MTBF (Bellcore)

- 607,680 hours

### Cables

- Multimode: small form factor (SFF) 850 nm, 300 m max
- Single mode: small form factor (SFF) 1,310 nm, 10 km max

### Regulatory Compliance:

- CE Mark
- Emissions:
  - FCC 47CFR Part 15 Class A (USA)
  - EN55022: 1998/A1:2000/A2:2003 Class A ITE (EU)
  - AS/NZ CISPR 22:2002 Class A (Aus. New Zealand)
  - ICES-003 Issue 3 Class A (Canada)
  - VCCI Class A ITE (Japan)
- Immunity
  - EN55024:1998/A1:2001/A2:2003 (EU)
- Safety
  - UL60950-1 (USA)
  - CSA 22.1 no. 60950-1-03 (Canada)
  - EN 60950-1 (EU)
- RoHS 2002/95/EC compliant

## Trigger Screen

The screenshot displays the RFM2y Analyzer software interface. The main window shows a table of captured packets with columns for Packet #, Time, Src ID, Dst ID, CMD Flag, RDP, BSN, RPF, Mem Addr, and Packet Data. A 'Capture dialog' window is open in the foreground, showing 'Filters' and 'Triggers' tabs. The 'Filters' tab is active, displaying a list of filter options with checkboxes, including Pkt Type, Byte Select Not Bits, Src Node ID, User Defined, Redundant Mode Flags, CMD Bits, Invalid Node ID, BR13 through BR29, Spare Pkt Bits, Rogue Pkt Flags, FIFO Full, Mem Addr, Dest Node ID, and Chksum/Parity Error. The 'localhost : 3000' status is visible at the bottom of the interface.

## Ordering Information

**PEAZ-5565-1MB000** Low-Profile PCI Express, 2 GIGA Baud RM w/FO Options, 128 Mbyte Memory, Multimode Transmission. Includes Analyzer firmware, with low-profile PCIE bracket

## About GE Intelligent Platforms

GE Intelligent Platforms is a division of GE that offers software, control systems, services, and expertise in automation and embedded computing. We offer a unique foundation of agile and reliable technology providing customers a sustainable competitive advantage in the industries they serve, including energy, water, consumer packaged goods, oil and gas, government and defense, and telecommunications. GE Intelligent Platforms is headquartered in Charlottesville, VA. For more information, visit [www.ge-ip.com](http://www.ge-ip.com).

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