

## PMC GATEWAY MODULE

### GWZ533



The PMC Gateway Module (GWZ533) creates a high-rate pathway between carrier cards or hosts in a multi-chassis networked telemetry/avionics processing environment. Overcome chassis slot limitations by bridging up to 8 mixed host processors at full MUXbus data rates. All MUXbus data is simultaneously broadcast to every processing module, regardless of chassis location. This allows for distributed processing of real-time, multistream, mixed input/output data.

Use two (2) GWZ533 modules when creating a high-speed MUXnet gateway between System 550 and Avalon hosts, or one (1) module when combining a System 550 or Avalon system with a Vista 350P real-time PC-based system. The Vista 350P, with L-3's PCI Mezzanine Carrier (ZCM796), includes an onboard MUXnet connector that eliminates the need for a corresponding PMC Gateway Module inside the PC.

#### KEY FEATURES

- Creates a high-speed gateway between carrier cards or hosts
- 1.25 Gb/sec serial transfer rate (signaling speed)
- Supports chains of up to 8 mixed host chassis forming a single MUXbus
- Compatible with System 550, Avalon, and Vista 350P real-time PC-based systems
- Supports star and daisy-chain network topologies
- Full-duplex operation
- Detects transmission error faults
- Compatible with VME Mezzanine Carrier (ZCM596) and VME Mezzanine Carrier with Arbiter (ZCA596)
- Shares MUXbus data with PC-based systems using PCI Mezzanine Carrier (ZCM796) over MUXnet

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# Telemetry-West

## PMC GATEWAY MODULE

### GWZ533 SPECIFICATIONS

#### Input

Number of channels .....1  
 Signaling speed .....1.25 Gbps  
 Interface .....Unbalanced, transformer coupled, 75 Ohm,  
 Mini-BNC coax

#### Output

Number of channels .....1  
 Signaling speed .....1.25 Gbps  
 Interface .....Unbalanced, transformer coupled, 75 Ohm,  
 Mini-BNC coax

#### Function

Format Size .....16-bit tag ; 32-bit data  
 Tag Range .....64K  
 Measurement Width .....1 to 32 bits  
 Data Formats .....Binary, 2's Complement, Floating Point  
 Error Detection .....Loss of Sync, Link Quality Status

#### Performance

Coding Scheme .....8B/10B  
 Telemetry Data Transfer Rate .....17.8M measurements per second (burst)  
 Raw Data Transfer Rate .....125 MB per second  
 Transmission Distance  
 over Coax Cable .....100 feet (minimum)

#### General Requirements

System 550 or Avalon Chassis  
 VME Carrier .....1 PMC slot  
 Rear Panel .....1 slot, 1 Tx Mini-BNC, 1 Rx Mini-BNC  
 Connector Type .....Mini-BNC

Operating Temperature .....0° to 50° C  
 Dimensions .....75mm x 150mm (PMC standard)  
 Power Requirements .....+5V @ 0.2 Amps (maximum)  
 +3.3V @ 2.0 Amps  
 Power Dissipation .....2.8W (typical)

#### Status

Status Display LEDs .....Transmitter active  
 Receiver active  
 Receiver Link Fault indication  
 Board OK  
 PCI Data Acknowledge  
 Data Input  
 Data Output

#### PMC and PCI Bus Host Interface

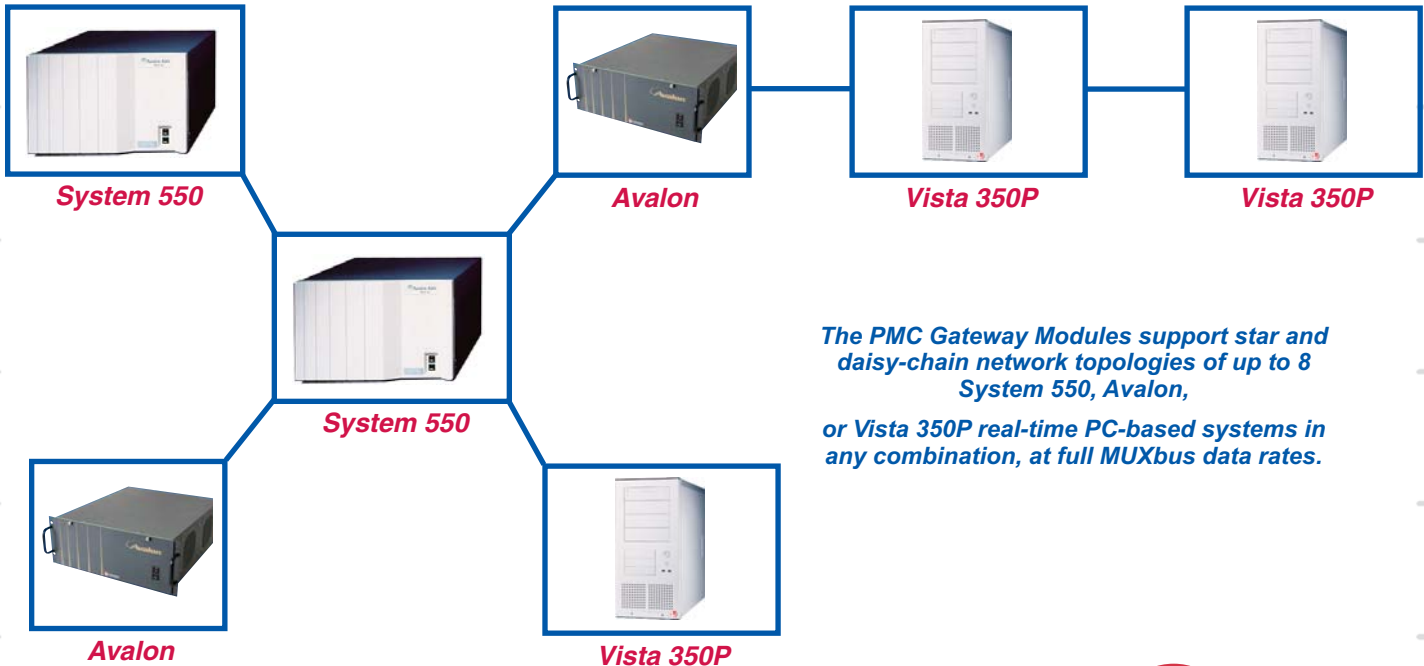
Bus Speed .....33 MHz  
 Data Width .....64 Bits  
 Electrical and Physical .....PCI Rev 2.3

#### Compatibility

VME Mezzanine Carrier (ZCM596)  
 VME Mezzanine Carrier with Arbiter (ZCA596)  
 SWA500 Applications Software  
 VISTA Software

#### Ordering Information

GWZ533 .....Gateway Module, PMC (includes 1 cable)  
 GWZ533-SET .....Gateway Module Set, PMC (includes 2 PMCs  
 plus 1 cable)



**The PMC Gateway Modules support star and daisy-chain network topologies of up to 8 System 550, Avalon, or Vista 350P real-time PC-based systems in any combination, at full MUXbus data rates.**

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