

Ground Systems

Real-Time PC-Based Telemetry Ground Station

VISTA 350P



- Real-time data driven deterministic processing
- Uses off the-shelf commercial PC hardware
- Upgradeable and expandable
- Interoperable with System 550 and Avalon systems
- Runs under Vista enterprise telemetry software
- Customizable using API tool set
- Compatible with Multifunction PCI Telemetry Module (MFT733-PCI)
- Uses high-performance PCI Mezzanine Carrier (ZCM796) and PMC input/output modules
- Distributed real-time architecture
- Desktop and rackmount configurations available
- Standard and industrial PC options



communications

Telemetry-West

Excellence You Can Measure

L-3 Telemetry-West, the leader in real-time Telemetry and Avionics processing systems, is pleased to introduce the Vista 350P real-time PC-based ground telemetry station. This breakthrough architecture performs true data driven time-deterministic processing using off-the-shelf commercial PC hardware.

Using a standard PC and L-3's ground-breaking PCI Mezzanine Carrier (ZCM796) equipped with PMC input/output modules, the Vista 350P supports everything from basic 1- and 2-stream applications using the widely popular Multifunction PCI Telemetry Module (MFT733-PCI) to complex multi-stream missions involving mixed inputs/outputs and multiple linked PC and VME chassis.

The Vista 350P runs under Vista enterprise telemetry software and is available in desktop and rackmount configurations with single and dual processors. Standard and industrial PC chassis options and a full range of PMC and PCI modules are available to meet the most demanding telemetry applications.



Vista 350P shares high-speed MUXnet data with L-3 Telemetry-West's complete family of high-performance real-time ground systems to support complex multi-stream, mixed input/output missions.

Application Modules

Input

PCM Telemetry
Receiver/Combiner
PCM Bit Sync
PCM Decom
MIL-STD-1553
Analog
Serial
IRIG Time
Voice

Mass Storage

SCSI
Fiber Channel

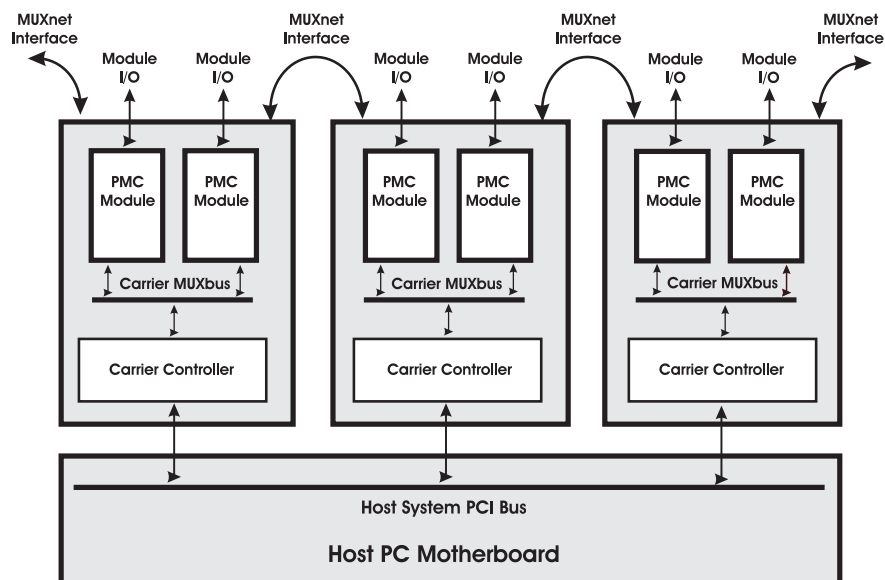
Network

Ethernet 10/100/1000
Fiber Channel

Output/Simulation

PCM Simulator
MIL-STD-1553
Analog
Digital
Serial
Voice

Host PC with PCI Mezzanine Carriers and PMC Modules



Vista 350P Specifications

Internal Bus Architectures

MUXbus II

Function: High-performance real-time data transfer between modules
TypeData flow, synchronous
Bus ModeBroadcast
Transfer Rate33 MHz, 133 MB/sec
Size20-bit tag (address); 32-bit data
Tag Range1 million
ArbitrationPCI arbitration
Chassis SupportedUp to 8 chassis

PCI Bus

Function: Setup and control for all modules; data transfer for selected modules
PCI StandardsPCI 2.3, PCI-X 1.0b
Bus Speed33 MHz, 66MHz, 100MHz, 133 MHz
Data Width32 bits, 64 bits

MUXnet Performance

Coding Scheme8B/10B
Telemetry Data Transfer Rate17.8M measurements per second
Raw Data Transfer Rate125 MB per second
Transmission Distance
over Coax Cable100 feet (minimum)

System Controller / Host Processor

Function: Network and module setup and control
Operating SystemMicrosoft Windows 2000, XP Professional
Integrated MotherboardDepends on configuration
MicroprocessorDepends on configuration

Chassis Options

PC ChassisStandard or industrial models available
ConfigurationsDesktop or rackmount

Hardware Modules Supported

PCI full-length (various)
Multifunction PCI Telemetry Module (MFT733-PCI)
PCI Mezzanine Carrier (ZCM796)
PMC Input/Output Modules (various)

Compatibility

VISTA Software
Microsoft Windows

U.S. Headquarters

9020 Balboa Avenue
San Diego, CA 92123-3507
858-694-7500 800-351-8483
Fax: 858-279-0693

www.L-3Com.com/tw



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