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Data Sheet

August 15, 2026

CURTISS-WRIGHT / VMETRO

Curtiss-Wright / VMETRO Vanguard-PCI Bus Analyzer and Exerciser

The Curtiss-Wright/VMETRO Vanguard-PCI is a PCI bus analyzer and exerciser. It allows users to monitor, analyze, and debug PCI bus transactions. It is suitable for hardware and software development, validation, and troubleshooting.

**MODEL****Curtiss-Wright /
VMETRO
Vanguard-PCI****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****Vanguard-PCI****LISTING**<https://aumictechlabs.com/products/vanguard-pci-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Curtiss-Wright/VMETRO Vanguard-PCI is a PCI and PCI-X bus analyzer and exerciser designed for hardware and software development, validation, and troubleshooting. It captures and analyzes PCI bus transactions in real time, supporting both PCI and PCI-X protocols up to 133 MHz. The instrument operates via a Windows-based PC interface using the BusView graphical user interface or an application programming interface (API), and connects through 10/100 Mbit/s Ethernet or USB. Technical Specifications Analysis Bandwidth: 64-bit or 32-bit bus activity capture up to 133 MHz Trace Buffer: 2M Sample Trace Buffer @ 256-bits Protocol Support: PCI (0-66 MHz), PCI-X (0-133 MHz), CompactPCI (cPCI), PMC (Peripheral Module) Form Factors: PCI Short Card, cPCI (System Slot or Peripheral), PMC; zero-slot adapter available for PCI systems

Host Interfaces: 10/100 Mbit/s Ethernet, USB Power: 5V Adapter Card draws 33 mA @ 3.3V; LED display powered from 5V rail Key Features State Analyzer Captures PCI-X/PCI bus activity with advanced triggering, filtering, and counting; three sampling modes: Standard, Clock, and Transfer Protocol Checker (Optional) Detects protocol errors: up to 71 errors for PCI-X, up to 45 errors for PCI; operates in background and triggers on error events Statistics Functions Real-time measurement of latency, throughput, and device efficiency Dual DMA Engines Concurrent DMA operation with target memory (I/O and memory spaces) Command Executer Device emulation and custom bus traffic generation Scripting Support Automated test scenario creation and execution Advanced Exerciser (Optional) Bus Master with DMA, Target interface with 8 MB memory, and Interrupter; supports 32-bit/64-bit at 66 MHz PCI and 100 MHz PCI-X Typical Applications Protocol validation, device driver debugging, PCI/PCI-X subsystem characterization, and automated regression testing of embedded and enterprise systems. Compatibility & Integration Available in multiple form factors including optional 6U cPCI adapter (CPCI-3U6U-ADA). Powered from target system or external supply (external supply required for Vanguard cPCI).

VANGUARDPCI Characteristics / Specifications

PARAMETER	VALUE
Model	Vanguard-PMC
Instrument Type	PMC bus analyzer
Form Factor	PMC module
Analysis Modes	state and statistics
Bus Target	PCI / PMC
Series Family	VMETRO Vanguard
Manufacturer	VMETRO / Curtiss-Wright
Use Case	embedded bus debug
Trace Memory Class	deep state trace buffer
Triggering	complex bus event triggers
Statistics	real time bus utilization class
Host Software	Vanguard analyzer GUI
Operating Temperature Class	0 C to 55 C
Storage Temperature Class	minus 40 C to 85 C class
Power	PMC 3.3 V / 5 V rails
Connector	PMC P11/P12/P14/P15
Related Models	Vanguard-PCI VG-VME
Capture Clock	PCI bus clock synchronous
Protocol Support	PCI protocol decode
Form Factor Height	single PMC
Hot Swap Observation	supported in analyzer modes
Export	trace upload to host
Storage temperature	Class: minus 40 C to 85 C class
Operating temperature	Class: 0 C to 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 85 C class
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Related Models	Vanguard-PCI VG-VME
Capture Clock	PCI bus clock synchronous
Protocol Support	PCI protocol decode
Form Factor Height	single PMC
Hot Swap Observation	supported in analyzer modes
Export	trace upload to host Notes Identity and analyzer role from VMETRO/Curtiss-Wright Vanguard-PMC product literature. Exact trace depth is configuration-dependent on the installed Vanguard memory option.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.