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Data Sheet

August 15, 2026

CURTISS-WRIGHT / VMETRO

Curtiss-Wright / VMETRO DPIO-FI/32K FPDP Input PMC Module

The Curtiss-Wright/VMETRO DPIO-FI/32K is an FPDP Input PMC Module designed for high-speed data acquisition in demanding embedded computing environments. This single-wide PCI Mezzanine Card captures data from FPDP sources and interfaces directly with VME, cPCI, and other PMC-equipped host platforms via PCI Bus Revision 2.1 with DMA controllers. The module delivers sustained input throughput up to 160 MBytes/sec with PECL clock or 80 MBytes/sec with TTL clock, making it suitable for real-time signal processing and data logging applications. Data Rate Support: Up to 160 MBytes/sec (PECL clock); up to 80 MBytes/sec (TTL clock) DMA Controllers: Two independent DMA controllers with chaining support from PCI memory Unidirectional FIFO with Crossbar switch configuration enables flexible input or output operation



MODEL

**Curtiss-Wright /
VMETRO DPIO-
FI/32K**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DPIO-FI/32K

LISTING

<https://aumictechlabs.com/products/dpio-fi-32k-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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Technical Specifications Form Factor: Single-wide PCI Mezzanine Card (PMC) Interface: Front Panel Data Port (FPDP) ANSI/VITA 17-1998 compliant PCI Compliance: PCI Bus Revision 2.1 Data Rate Support: Up to 160 MBytes/sec (PECL clock); up to 80 MBytes/sec (TTL clock) FIFO Buffer Memory: Configurable as 8Kx32 or 32Kx32 PCI Operation: 3.3V or 5V DMA Controllers: Two independent DMA controllers with chaining support from PCI memory Key Features Unidirectional FIFO with Crossbar switch configuration enables flexible input or output operation Software-switchable operating modes: Transmitter Master, Receiver Master, or Receiver Support for all four FPDP operating modes Flexible PCI interrupt generation for real-time control Direct Memory Access (DMA) for efficient data transfer without host CPU intervention Typical Applications High-speed data acquisition systems Real-time signal processing and telemetry Industrial embedded instrumentation VME and cPCI-based test and measurement platforms Compatibility & Integration The DPIO-FI/32K integrates into any PMC site on VMEbus, CompactPCI, or equivalent industrial computing platforms. Driver support is provided for Solaris, VxWorks, and Windows NT operating systems.

DPIOFI32K Characteristics / Specifications

PARAMETER	VALUE
Model	DPIO-FI/32K
Instrument Type	FPDP input PMC
Mezzanine	PMC
Family	VMETRO DPIO
Buffer	32K
Direction	FPDP input
Related Analyzer	VG-SAM Vanguard state analyzer
Form Factor	PMC
Manufacturer	VMETRO / Curtiss-Wright
Use Case	FPDP data capture
Control	host DMA / DPIO driver
Operating Temperature Class	commercial PMC
Literature	Curtiss-Wright VMETRO DPIO-FI/32K listings
Protocol	Front Panel Data Port
Documentation Type	OEM FPDP PMC catalog
Brand Lineage	VMETRO Curtiss-Wright
System Role	FPDP receive PMC
Power	from PMC connector
Clock	FPDP strobe class
Width	FPDP 32-bit class
Throughput Class	FPDP peak rate per DPIO sheet
Calibration Source	OEM published specifications
Operating temperature	Class: commercial PMC

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: commercial PMC
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Literature	Curtiss-Wright VMETRO DPIO-FI/32K listings
Protocol	Front Panel Data Port
Documentation Type	OEM FPDP PMC catalog
Brand Lineage	VMETRO Curtiss-Wright
System Role	FPDP receive PMC
Power	from PMC connector
Clock	FPDP strobe class
Width	FPDP 32-bit class
Throughput Class	FPDP peak rate per DPIO sheet
Calibration Source	OEM published specifications Notes From Curtiss-Wright / VMETRO DPIO-FI/32K FPDP input PMC catalog identity (32K buffer). FPDP clock rate and DMA payload are on the DPIO-FI data sheet.

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

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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.