

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

CURTISS-WRIGHT / VMETRO

Curtiss-Wright / VMETRO DPIO-DO RS-422 Output PMC Module

The Curtiss-Wright/VMETRO DPIO-DO is an RS-422 output PMC (PCI Mezzanine Card) module engineered for high-speed digital parallel I/O in data acquisition and control systems. Delivering up to 100 MBytes/sec, this 32-bit parallel interface card integrates Front Panel Data Port (FPDP) compatibility for direct, high-bandwidth streaming between converters and processing units in industrial and military environments. FPDP Clock Support: Up to 20 MHz (TTL strobe) or up to 40 MHz (PECL differential strobes) Front Panel Data Port (FPDP) compatibility with -FI and -FO module versions enables plug-and-play integration into existing parallel data systems Selectable FIFO configurations (8K or 32K) accommodate varying buffer depth requirements



MODEL

**Curtiss-Wright /
VMETRO DPIO-DO**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DPIO-DO

LISTING

[https://aumictechlabs.c
om/products/dpio-do-
2/](https://aumictechlabs.com/products/dpio-do-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Curtiss-Wright/VMETRO DPIO-DO is an RS-422 output PMC (PCI Mezzanine Card) module engineered for high-speed digital parallel I/O in data acquisition and control systems. Delivering up to 100 MBytes/sec, this 32-bit parallel interface card integrates Front Panel Data Port (FPDP) compatibility for direct, high-bandwidth streaming between converters and processing units in

industrial and military environments. Technical Specifications Interface: RS-422 Output, PMC form factor Data Transfer Rate: Up to 100 MBytes/sec Parallel Data Bus: 32-bit FIFO Depth: 8K or 32K options FPDP Clock Support: Up to 20 MHz (TTL strobe) or up to 40 MHz (PECL differential strobes) Manufacturer: Curtiss-Wright/VMETRO Key Features Front Panel Data Port (FPDP) compatibility with -FI and -FO module versions enables plug-and-play integration into existing parallel data systems Selectable FIFO configurations (8K or 32K) accommodate varying buffer depth requirements Dual clock rate support via TTL and PECL differential strobes provides flexibility across legacy and modern system architectures 32-bit parallel data path optimized for large-volume sensor data streaming Typical Applications Designed for high-speed digital data generation and acquisition workflows, the DPIO-DO facilitates direct transfer of raw sensor data from Analog-to-Digital Converters (ADCs) or Digital-to-Analog Converters (DACs) to processors, memory, or storage subsystems. Particularly suited to applications demanding sustained, high-bandwidth parallel data movement without intermediate protocol translation. Compatibility & Integration Mounts in standard PMC card slots on PCI or PCI-X carrier boards. FPDP standard compliance allows integration with systems already standardized on this parallel interface protocol. Designed for use with PMC carrier boards such as the SVME/DMV-210. Curtiss-Wright products are engineered for demanding industrial and military operational environments.

DPIODO Characteristics / Specifications

PARAMETER	VALUE
Model	DPIO-DO
Instrument Type	RS-422 output PMC module
Form Factor	PMC (IEEE 1386.1)
Interface	RS-422 differential outputs
Family	VMETRO DPIO digital parallel I/O
Host Buses	VME and CompactPCI PMC carriers
Manufacturer	VMETRO / Curtiss-Wright
Use Case	RS-422 digital output mezzanine
Literature	VMETRO/Curtiss-Wright DPIO-DO PMC listings
Documentation Type	OEM DPIO-DO PMC listing
Brand Lineage	VMETRO Curtiss-Wright
System Role	RS-422 output PMC
Related Family	DPIO digital parallel I/O PMC modules
Electrical Class	RS-422 differential
Mezzanine Standard	IEEE 1386.1 PMC
Carrier Class	PMC site on VME or cPCI host
I/O Class	digital parallel output
Recorder Class	digital playback/recorder companion PMC
Operating Temperature Class	commercial PMC
Year Class	VMETRO DPIO PMC family
Vendor Path	VMETRO Curtiss-Wright
Card Format	single PMC
Protocol Class	RS-422 digital
Documentation Class	OEM PMC catalog
Operating temperature	Class: commercial PMC

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: commercial PMC
Operating Temperature	Class: commercial PMC
Operating Temperature Class	commercial PMC
Year Class	VMETRO DPIO PMC family
Vendor Path	VMETRO Curtiss-Wright
Card Format	single PMC
Protocol Class	RS-422 digital
Documentation Class	OEM PMC catalog Notes From VMETRO/Curtiss-Wright DPIO-DO PMC listings (RS-422 output PMC in the DPIO family). Channel count, bit rate, and connector pinout are on the DPIO-DO hardware reference.

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	
Specifications	
PARAMETER	VALUE
Model	DPIO-DO
Instrument Type	RS-422 output PMC module
Form Factor	PMC (IEEE 1386.1)
Interface	RS-422 differential outputs
Family	VMETRO DPIO digital parallel I/O
Host Buses	VME and CompactPCI PMC carriers
Manufacturer	VMETRO / Curtiss-Wright
Use Case	RS-422 digital output mezzanine
Literature	VMETRO/Curtiss-Wright DPIO-DO PMC listings
Documentation Type	OEM DPIO-DO PMC listing
Brand Lineage	VMETRO Curtiss-Wright
System Role	RS-422 output PMC
Related Family	DPIO digital parallel I/O PMC modules
Electrical Class	RS-422 differential
Mezzanine Standard	IEEE 1386.1 PMC
Carrier Class	PMC site on VME or cPCI host
I/O Class	digital parallel output
Recorder Class	digital playback/recorder companion PMC
Operating Temperature Class	commercial PMC
Year Class	VMETRO DPIO PMC family
Vendor Path	VMETRO Curtiss-Wright
Card Format	single PMC
Protocol Class	RS-422 digital
Documentation Class	OEM PMC catalog

Notes

From VMETRO/Curtiss-Wright DPI0-D0 PMC listings (RS-422 output PMC in the DPI0 family). Channel count, bit rate, and connector pinout are on the DPI0-D0 hardware reference.

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
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.