

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

GENERAL DYNAMICS / VERIDIAN / VEDA SYSTEMS

General Dynamics / Veridian / Veda Systems 314-290125-300 PCI Decom Module

The General Dynamics/Veridian/Veda Systems 314-290125-300 is a PCI decommutator module that decodes individual parameters from serial PCM data streams. This PCI expansion card integrates three Altera Flex 10K programmable logic devices with an AMCC PCI Matchmaker S5935 local bus interface controller and four Cypress CY7C4275 32K x 18 deep synchronous FIFO buffers. The architecture enables real-time processing and temporary buffering of incoming PCM data before transmission to the host system. System upgrades and hardware transition scenarios requiring data redecommissioning Aumictech offers NIST-traceable calibration and repair for the General Dynamics / Veridian / Veda Systems 314-290125-300. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1-3 business days after receipt. This General Dynamics / Veridian / Veda Systems 3

**MODEL****General Dynamics
/ Veridian / Veda
Systems 314-
290125-300****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****314-290125-300****LISTING**<https://aumictechlabs.com/products/314-290125-300-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The General Dynamics/Veridian/Veda Systems 314-290125-300 is a PCI decommutator module that decodes individual parameters from serial PCM data streams. This PCI expansion card integrates three Altera Flex 10K programmable logic devices with an AMCC PCI Matchmaker S5935 local bus interface controller and four Cypress CY7C4275 32K x 18 deep synchronous FIFO buffers. The architecture enables real-time processing and temporary buffering of incoming PCM data before transmission to the host system.

Technical Specifications

Three (3)	Altera Flex 10K embedded programmable logic devices (PLDs)
One (1)	AMCC PCI Matchmaker S5935 local bus interface logic chip
Four (4)	Cypress CY7C4275 32K x 18 deep synchronous FIFO buffers

PCI Local Bus (Peripheral Component Interconnect) interface

Standard PCI expansion card form factor

Key Features

- Serial PCM decommutation and parameter extraction from incoming data streams
- Deep FIFO buffering for data staging before host PC transmission
- Programmable logic architecture supporting custom signal processing algorithms
- PCI interface management between FPGA and host bus
- Synchronous operation tied to single bus clock reference

Typical Applications

- Serial PCM telemetry data processing and decoding
- Hardware-based decommutation in avionics and aerospace test systems
- Real-time data stream analysis and parameter extraction

System upgrades and hardware transition scenarios requiring data redecommissioning

Compatibility & Integration

Designed for integration into PCI bus architecture systems. The card operates as a standard PCI parallel bus expansion device, synchronized to the host system clock and supporting typical PCI bus signaling and timing conventions.

314290125300 Characteristics / Specifications

PARAMETER	VALUE
Model	314-290125-300
Instrument Type	PCI decom module
Manufacturer	General Dynamics / Veridian / Veda Systems
Literature	remaining-queue listing General Dynamics / Veridian / Veda Systems 314-290125-300 PCI Decom Module
Family	Veda / Veridian telemetry decom PCI family
Form Factor	as installed per drawing
System Role	PCI telemetry decommutation in systems that specify 314-290125-300
Brand Lineage	General Dynamics / Veridian / Veda Systems
Queue Title	General Dynamics / Veridian / Veda Systems 314-290125-300 PCI Decom Module
Documentation Type	OEM remaining-queue listing
Use Case	PCI telemetry decommutation in systems that specify 314-290125-300
Vendor Path	General Dynamics / Veridian / Veda Systems
Year Class	314-290125-300 generation
Application Class	PCI decom module
Module Class	PCI decom module
Host Class	host on the drawing
Connector Class	connectors on the drawing
Ate Class	industrial / lab ATE class
Control Class	front panel / firmware on the drawing
Environment Class	ambient on the nameplate
Voltage Class	volts on the nameplate
Current Class	amperes on the nameplate
Config	314-290125-300 remaining-queue suffix
Function Class	function on the drawing

PARAMETER	VALUE
Bus Class	PCI decom module
Telemetry Role	decom

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	314-290125-300
Instrument Type	PCI decom module
Manufacturer	General Dynamics / Veridian / Veda Systems
Literature	remaining-queue listing General Dynamics / Veridian / Veda Systems 314-290125-300 PCI Decom Module
Family	Veda / Veridian telemetry decom PCI family
Form Factor	as installed per drawing
System Role	PCI telemetry decommutation in systems that specify 314-290125-300
Brand Lineage	General Dynamics / Veridian / Veda Systems
Queue Title	General Dynamics / Veridian / Veda Systems 314-290125-300 PCI Decom Module
Documentation Type	OEM remaining-queue listing
Use Case	PCI telemetry decommutation in systems that specify 314-290125-300
Vendor Path	General Dynamics / Veridian / Veda Systems
Year Class	314-290125-300 generation
Application Class	PCI decom module
Module Class	PCI decom module
Host Class	host on the drawing
Connector Class	connectors on the drawing
Ate Class	industrial / lab ATE class
Control Class	front panel / firmware on the drawing
Environment Class	ambient on the nameplate
Voltage Class	volts on the nameplate
Current Class	amperes on the nameplate
Config	314-290125-300 remaining-queue suffix
Function Class	function on the drawing
Bus Class	PCI decom module

PARAMETER	VALUE
Telemetry Role	decom
Config	300 remaining-queue suffix

Notes

From remaining-queue title (General Dynamics / Veridian / Veda 314-290125-300 PCI Decom Module). Channel map and bit rates are on the 314-290125-300 drawing.

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.