

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

dSPACE

dSPACE DS2103 Multi-Channel D/A Board

The dSPACE DS2103 is a multi-channel D/A board for dSPACE modular hardware (DS100x processor boards and PX20 expansion). OEM DS2103 listings describe multiple analog output channels with 16-bit class converters for HIL and rapid-control-prototyping I/O. Used with DS1006 processor boards and PHS/PX buses. Companion DS814 link board in the same inventory. Output ranges plus or minus 10 V class typical of dSPACE analog I/O. HIL and RCP analog stimulus from dSPACE processor boards. Host: DS100x processor boards / PX20 expansion Software Class: RTI / ConfigurationDesk class Update Class: real-time step synchronized Protection Class: short-circuit class analog out From dSPACE DS2103 listings (multi-channel D/A, 16-bit class, +/-10 V class, DS100x/PX20). Channel count and settling time are on the DS2103 datasheet; do not invent them.



MODEL

dSPACE DS2103

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DS2103

LISTING

<https://aumictechlabs.com/products/ds2103-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The dSPACE DS2103 Multi-Channel D/A Board is a analog output board engineered for real-time control prototyping and hardware-in-the-loop (HIL) simulation environments. It generates analog signals across up to 32 independently configured output channels, delivering the precision and speed required for demanding control applications. Technical Specifications Channels: Up to 32 analog outputs Resolution: 14-bit Settling Time: 1.6 μ s Sample Time: 10.0 μ s Output Voltage Ranges: Individually configurable per channel - ± 5 V, ± 10 V, or 0 to +10 V Output Current: ± 5 mA

maximum D/A Converters: 5 parallel converters Key Features Independent voltage range selection per channel enables flexible signal conditioning without external components Fast settling time of 1.6 μ s supports high-bandwidth control loops 14-bit resolution provides adequate precision for industrial and automotive control applications 10.0 μ s sample time supports real-time execution with deterministic timing Board-level form factor integrates directly into dSPACE real-time platforms Typical Applications Hardware-in-the-loop (HIL) simulation and testing Real-time control prototyping and verification Motor control and power electronics testing Vehicle and powertrain simulation Industrial automation controller development Compatibility & Integration Full integration with dSPACE's Real-Time Interface (RTI) allows direct configuration from Simulink® models. RTI libraries provide pre-built blocks for rapid development, eliminating manual hardware register management. Configuration of output ranges and timing parameters occurs within the Simulink environment, enabling straightforward model-based design workflows.

DS2103 Characteristics / Specifications

PARAMETER	VALUE
Model	DS2103
Instrument Type	Multi-channel D/A board
Family	dSPACE modular I/O
Converter Class	16-bit class D/A
Range Class	plus or minus 10 V class
Host	DS100x processor boards / PX20 expansion
Manufacturer	dSPACE
Literature	dSPACE DS2103 listings
Form Factor	dSPACE I/O board
Application Class	HIL and rapid control prototyping
System Role	multi-channel analog output
Use Case	real-time analog stimulus
Documentation Type	OEM DS2103 listing
Sibling Link	DS814-09 link board
Sibling Cpu	DS1006-07 processor board
Sibling Box	PX20 expansion box
Brand Lineage	dSPACE GmbH
Year Class	DS2103 D/A
Bus Class	dSPACE PHS / PX
Channel Class	multi-channel analog out
Software Class	RTI / ConfigurationDesk class
Connector Class	dSPACE analog I/O panel
Update Class	real-time step synchronized
Protection Class	short-circuit class analog out
Calibration Class	board-level D/A cal

DS2103 Specifications

PARAMETER	VALUE
dSPACE DS2103 Multi Channel D/A Board	Overview
Plus or minus 10 V class	DS100x / PX20 ecosystem
Technical Specifications	Model: DS2103

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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Notes

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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.