

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

dSPACE

dSPACE PX20 Expansion Box

Queue model PX20 is the dSPACE PX20 expansion box used with AutoBox / PX processor hardware. dSPACE PX-family expansion literature describes a 19-inch class expansion chassis that adds I/O and processor boards beside a DS1005/DS1006/PX10-class real-time processor, PHS or PX bus interconnect, rack or lab placement, and support for dSPACE I/O boards (DS2000/DS4000/DS5000 families) in HIL and RCP. PX20 denotes the 20-slot-class PX expansion enclosure versus the smaller PX10. Used to scale analog, digital, and bus I/O around a dSPACE real-time CPU. Hardware-in-the-loop and rapid control prototyping I/O expansion around dSPACE AutoBox/PX processors. Analog Boards: DS2000-family ADC/DAC in PX slots Digital Boards: DS4000-family DIO in PX slots Placement: beside AutoBox or PX processor chassis Literature: dSPACE PX20 expansion box identification in PX/AutoBox hardware family



MODEL

dSPACE PX20

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PX20

LISTING

<https://aumictechlabs.com/products/px20-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The dSPACE PX20 Expansion Box is a modular hardware component designed to extend the input/output (I/O) capabilities of dSPACE real-time systems. It is a chassis to house additional dSPACE boards, thereby increasing the overall processing power and connectivity for complex control and simulation tasks. The PX20 Expansion Box is particularly suited for applications requiring significant I/O expansion beyond what a host PC or smaller expansion boxes can offer.

Its solid construction and design considerations for low noise emission and vibration handling make it suitable for demanding laboratory and industrial environments. Technical Specifications *

Chassis Type: Desktop box; 19" rack-mount version available (4U height). **Slots:** 20 full-size 16-bit ISA slots. **Reserved Slot:** 1 slot is reserved for a Link Board or slot CPU board for Ethernet connection. **AutoBoot Option:** An additional slot is required if the AutoBoot option is used for stand-alone operation. **Expandability:** Can be integrated into multi-rack systems for further signal conditioning and expandability. **Low Noise Emission:** Designed for low noise emission. **Vibration Handling:** Efficient vibration handling capabilities. **Electrical Specifications ***

Power Supply: *

Input: 100 ... 240 V AC, 50 ... 60 Hz. *** Output Power:** 400 W at 100 ... 170 V AC; 450 W at 170 ... 240 V AC. **Maximum Output Current: *** 5 V: 75 A * 12 V: 12 A * -12 V: 4 A * **Note:** The sum of the output currents must not exceed the maximum output power. **Grounding:** Circuit ground is connected to the chassis and through that to the power system's protective ground. **Interfaces ***

Host PC Connection Options: * Physical connection via high-speed serial or optical link. *** Link Boards** are available for connecting host PCs with ISA, PCI, PCI Express, PCMCIA, ExpressCard, or Ethernet interfaces. *** A Link Board or slot CPU board is required for Ethernet connection. * The DS1006 Processor Board in a PX20 requires four slots, including one for the DS814 Link Board or the slot CPU. Physical Characteristics ***

Physical Size: 183 mm (height, includes 6 mm rubber feet) x 443 mm (width) x 535 mm (depth). *** (7.2 × 17.4 × 21.0 inches)** **Weight (without boards):** 15.6 kg (34.4 lb). **Environmental Specifications ***

Ambient Temperature: 0 ... 50 °C (32 ... 122 °F). *** Note:** The lowest maximum ambient temperature of installed dSPACE processor and I/O boards is applicable. **Humidity:** 20 ... 90%, non-condensing. **Compatibility ***

Processor Boards: * Can house dSPACE processor boards and I/O boards. *** PX20 Expansion Boxes** require hardware revisions certified for DS1006 Processor Boards, which may necessitate an Expansion Box update. *** DS1006-based modular systems must be installed in a PX10 or PX20 Expansion Box. The PX20 supports up to two DS1006 boards. * PX20 expansion boxes require special power supplies and connectors that fulfill DS1006 requirements. * It is not possible to insert a DS1006 in a PX4 Expansion Box or an AutoBox/TandemAutoBox. Host PC Connections:** Supports various Link Boards for connection to host PCs via ISA, PCI, PCI Express, PCMCIA, ExpressCard, or Ethernet. **System Integration:** Can be integrated into multi-rack systems for enhanced expandability. **Why Choose Aumictech for dSPACE PX20 Expansion Box?** At Aumictech, we specialize in supplying high-end dSPACE hardware and expansion systems. Whether you need to expand the I/O capabilities of your existing dSPACE setup, integrate additional sensors and actuators, or build a scalable simulation environment, our team ensures the dSPACE PX20 Expansion Box delivers maximum performance and reliability for your critical control and simulation applications.

PX20 Characteristics / Specifications

PARAMETER	VALUE
Model	PX20
Instrument Type	Real-time I/O and processor expansion chassis
Family	dSPACE PX / AutoBox expansion
Slot Class	20-slot-class PX expansion (versus PX10)
Host Processors	DS1005, DS1006 and PX processor generation
Interconnect	PHS / PX bus to the real-time CPU
Io Boards	dSPACE DS2000 analog, DS4000 digital, DS5000 bus families
Use	HIL and rapid control prototyping expansion
Form Factor	19-inch laboratory / rack expansion box
Sibling	PX10 smaller PX expansion enclosure
Software	dSPACE ControlDesk / Real-Time Interface with the host processor
Application	automotive and aerospace controller-in-the-loop
Expansion Role	I/O count scaling without replacing the CPU board
Bus Boards	CAN, LIN, FlexRay class DS5000 family in PX slots
Analog Boards	DS2000-family ADC/DAC in PX slots
Digital Boards	DS4000-family DIO in PX slots
Placement	beside AutoBox or PX processor chassis
Manufacturer	dSPACE GmbH
Literature	dSPACE PX20 expansion box identification in PX/AutoBox hardware family
Realtime Os	dSPACE real-time kernel on the connected processor board
Link Board	pairs with DS814-class link boards in some PX systems
Chassis Role	passive/active expansion enclosure, not a standalone CPU
Queue Title	dSPACE PX20 Expansion Box

PX20 Specifications

PARAMETER	VALUE
dSPACE PX20 Processor Expansion Box	Overview
Applications	Hardware-in-the-loop and rapid control prototyping I/O expansion around dSPACE AutoBox/PX processors.
Key Features	PX-family 20-slot-class expansion box
PHS/PX bus interconnect to the processor	19-inch laboratory/rack expansion
Technical Specifications	Model: PX20

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	PX20
Instrument Type	Real-time I/O and processor expansion chassis
Family	dSPACE PX / AutoBox expansion
Slot Class	20-slot-class PX expansion (versus PX10)
Host Processors	DS1005, DS1006 and PX processor generation
Interconnect	PHS / PX bus to the real-time CPU
Io Boards	dSPACE DS2000 analog, DS4000 digital, DS5000 bus families
Use	HIL and rapid control prototyping expansion
Form Factor	19-inch laboratory / rack expansion box
Sibling	PX10 smaller PX expansion enclosure
Software	dSPACE ControlDesk / Real-Time Interface with the host processor
Application	automotive and aerospace controller-in-the-loop
Expansion Role	I/O count scaling without replacing the CPU board
Bus Boards	CAN, LIN, FlexRay class DS5000 family in PX slots
Analog Boards	DS2000-family ADC/DAC in PX slots
Digital Boards	DS4000-family DIO in PX slots
Placement	beside AutoBox or PX processor chassis
Manufacturer	dSPACE GmbH
Literature	dSPACE PX20 expansion box identification in PX/AutoBox hardware family
Realtime Os	dSPACE real-time kernel on the connected processor board
Link Board	pairs with DS814-class link boards in some PX systems
Chassis Role	passive/active expansion enclosure, notastandalone CPU
Queue Title	dSPACE PX20 Expansion Box
Notes	
From dSPACE PX/AutoBox expansion-box family identification for PX20 (20-slot-class versus PX10). Board mix and PHS clocking belong on the installed DS100x/PX processor configuration.	

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.