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Find the *dSPACE PX20* at our website: *Click HERE*

Expansion Boxes for Modular Hardware

Boxes for expanding the host PC for dSPACE systems

Highlights

- Space for 3, 9 or 19 dSPACE boards
- Including Link Board for connection to host PC
- Several options for connection to host
- AutoBoot option for stand-alone operation
- Low noise emission and efficient vibration handling



Technical Details: PX4 Expansion Box

Parameter		Specification
Chassis		■ Desktop box ■ 4 full-size 16-bit ISA slots ■ 1 slot reserved for Link Board ■ 1 additional slot required if AutoBoot option is used ■ Low-noise fan cooling ■ Can be used for rapid control prototyping only
Power supply		■ 100 ... 240 V AC, 50 ... 60 Hz ■ 80 W
Maximum output current[1]		■ 10 A at 5 V ■ 3 A at 12 V ■ 0.8 A at -12 V
Grounding		■ Circuit ground is connected to the chassis and through that to the power system's protective ground.
Physical characteristics	Physical size	■ 99 x 165 x 428 mm (3.9 x 6.5 x 16.8 in)
	Weight (without boards)	■ 3.5 kg (7.7 lb)
	Ambient temperature[2]	■ 0 ... 50 °C (32 ... 122 °F)
	Humidity	■ 5 ... 95%, noncondensing

[1] *The sum of the output currents of the rails must not exceed the maximum output power.*
[2] *The dSPACE processor and I/O boards have different maximum ambient temperatures. When they are installed together, the lowest maximum ambient temperature is applicable.*

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Technical Details: PX10 Expansion Box

Parameter		Specification
Chassis		■ Desktop box ■ 19" rack-mount version available height: 4 U (4 HE) ■ 10 full-size 16-bit ISA slots ■ 1 slot reserved for Link Board or slot CPU board for Ethernet connection[1)] ■ 1 additional slot required if AutoBoot option is used ■ Low noise emission and efficient vibration handling
Power supply		■ 100 ... 240 V AC, 50 ... 60 Hz ■ 250 W
Maximum output current[2)]		■ 40 A at 5 V ■ 10 A at 12 V ■ 1 A at -12 V
Grounding		■ Circuit ground is connected to the chassis and through that to the power system's protective ground.
Physical characteristics	Physical size	■ 183 (includes 6 mm rubber feet) x 343 x 430 mm (7.2 x 13.5 x 16.9 in)
	Weight (without boards)	■ 10.8 kg (23.8 lb)
	Ambient temperature[3)]	■ 0 ... 50 °C (32 ... 122 °F)
	Humidity	■ 20 ... 90%, noncondensing

1) *A Link Board or a slot CPU board is not required for PHS bus systems based on DS1007.*
2) *The sum of the output currents of the rails must not exceed the maximum output power.*
3) *The dSPACE processor and I/O boards have different maximum ambient temperatures. When they are installed together, the lowest maximum ambient temperature is applicable.*

Technical Details: PX20 Expansion Box

Parameter		Specification
Chassis		■ Desktop box ■ 19" rack-mount version available height: 4 U (4 HE) ■ 20 full-size 16-bit ISA slots ■ 1 slot reserved for Link Board or slot CPU board for Ethernet connection[1)] ■ 1 additional slot required if AutoBoot option is used ■ Low noise emission and efficient vibration handling
Power supply		■ 100 ... 240 V AC, 50 ... 60 Hz ■ 400 W at 100 ... 170 V AC ■ 450 W at 170 ... 240 V AC
Maximum output current[2)]		■ 75 A at 5 V ■ 12 A at 12 V ■ 4 A at -12 V
Grounding		■ Circuit ground is connected to the chassis and through that to the power system's protective ground.
Physical characteristics	Physical size	■ 183 (includes 6 mm rubber feet) x 443 x 535 mm (7.2 x 17.4 x 21.0 in)
	Weight (without boards)	■ 15.6 kg (34.4 lb)
	Ambient temperature[3)]	■ 0 ... 50 °C (32 ...122 °F)
	Humidity	■ 20 ... 90%, noncondensing

1) *A Link Board or a slot CPU board is not required for PHS bus systems based on DS1007.*
2) *The sum of the output currents of the rails must not exceed the maximum output power.*
3) *The dSPACE processor and I/O boards have different maximum ambient temperatures. When they are installed together, the lowest maximum ambient temperature is applicable.*

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Order Information

Product	Order Number	
	Ethernet Interface[1)]	PCMCIA Link
PX4	–	■ PX4/814/815
PX10 Desktop Box	■ PX10N1	■ PX10/814/815
PX10 Rack-Mount Version	■ PX10N1/Rack	■ PX10/814/815/Rack
PX20 Desktop Box	■ PX20N1	■ PX20/814/815
PX20 Rack-Mount Version	■ PX20N1/Rack	■ PX20/814/815/Rack

1) *Implemented via the host PC's own Ethernet port.*

Order Information

Product	Order Number		
	PCI Bus Link	ExpressCard: DS821	PCI Express
PX4	■ PX4/814/817/Opto	■ PX4/814/821	■ PX4/814/819/Opto
PX10 Desktop Box	■ PX10/814/817/Opto	■ PX10/814/821	■ PX10/814/819/Opto
PX10 Rack-Mount Version	■ PX10/814/817/Rack/Opto	■ PX10/814/821/Rack	■ PX10/814/819/Rack/Opto
PX20 Desktop Box	■ PX20/814/817/Opto	■ PX20/814/821	■ PX20/814/819/Opto
PX20 Rack-Mount Version	■ PX20/814/817/Rack/Opto	■ PX20/814/821/Rack	■ PX20/814/819/Rack/Opto

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Connection to the Host PC

Several Options for Connection

To connect your expansion box to your host PC, you have several options: The physical connection between the host PC and expansion box is established via a high-speed serial or optical link. There are Link Boards for connecting host PCs with ISA, PCI, PCI Express, PCMCIA, ExpressCard or Ethernet connections (p. 500).

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