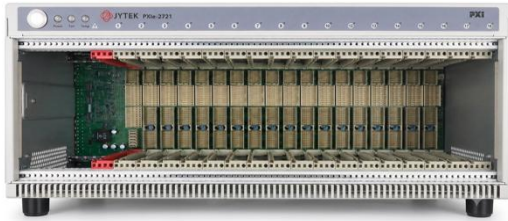


PXIe-2721

18-slot All-hybrid PXI Express Chassis



🔗 Please download JYTEK [<JYPEDIA>](#), you can quickly inquire the product prices, the key features and available accessories.

Overview

The JYTEK PXIe-2721 is an economical 18-slot fully-hybrid PXIe chassis compliant with PXI-5 Rev.1.0, built for cost-sensitive test and OEM applications. Notably, Slots 2 and 3 deliver 1 GB/s slot bandwidth, while Slots 4-18 provide 500 MB/s, catering to high-speed acquisition and general-purpose DAQ tasks. Its system slot offers up to 6 GB/s system bandwidth, and 17 hybrid peripheral slots support both modern PXIe and legacy 32-bit PXI modules.

Featuring low-skew timing clocks and JYDM-configurable segmented trigger buses for multi-module synchronization, this AC-powered chassis supplies 58 W per slot (derated to 38 W at 0-55 °C) with auto/high fan modes and full environmental monitoring. The 3U chassis supports optional rack-mounting.

Main Features

- PXI-5 PXI Express hardware specification Rev.1.0 compliant
- Up to 6 GB/s (PCI Express 3.0 x6 link) system bandwidth
- 1 GB/s slot bandwidth for slot 2,3
500 MB/s slot bandwidth for slot 4-18
- Specially designed for economical PXI/PXIe applications
- 0°C to 55°C extended operating temperature range
- Ideal for OEM vendors

Specifications

Basic

PXI Chassis Type	PXIe
Slot Count	18
Maximum slot bandwidth	Slot 2,3 : 1 GB/s (PCIe Gen3 x1) Slot 4-18 : 500 MB/s (PCIe Gen2 x1)
Maximum system bandwidth	6 GB/s (PCIe Gen3 x6)
Chassis Power Supply Type	AC
Slot Cooling Capacity	58 W (0°C ~ 40°C) 38 W (0°C ~ 55°C)
Onboard Clock Type	VCXO
External Clocking	Yes
Number of hybrid slots	17
Number of PXIe slots	0
Number of PXI slots	0
System timing slot	No
External Trigger Access	No
Redundant HW	No

Electrical

AC Input

Total Chassis Power	1436 W
Input voltage range	100 to 264 VAC
Input frequency	47~63 Hz
Input current rating	15-8 A
Efficiency	87%

DC Output

Total Available Power	1250W (0°C ~ 45°C , 220VAC) 1000W (45°C ~ 55°C , 220VAC)
+3.3 V	77 A
+5 V	53 A
+12 V	104 A
-12 V	5 A
5 Vaux	3 A
+3.3V Load Regulation	5%
+5V Load Regulation	5%

+12V Load Regulation	5%
-12V Load Regulation	5%
5Vaux Load Regulation	5%
+3.3V Maximum Ripple and Noise	50 mVpp
+5V Maximum Ripple and Noise	50 mVpp
+12V Maximum Ripple and Noise	120 mVpp
-12V Maximum Ripple and Noise	120 mVpp
5Vaux Maximum Ripple and Noise	50 mVpp

Maximum power dissipation

System Controller Slot	140 W
Hybrid Peripheral Slot	58 W

System Synchronization Clock

PXI_CLK10

Maximum slot-to-slot skew	160 ps
Accuracy	±25 ppm max
Phase-jitter (Typ)	3 ps RMS phase-jitter (10 Hz–900 kHz range)
Duty-factor	45%–55%
Unloaded signal swing	3.3 V ±0.3 V

PXIe_CLK100

Maximum slot-to-slot skew	125 ps
Accuracy	±25 ppm max
Phase-jitter (Typ)	3 ps RMS phase-jitter (10 Hz–10 kHz range) 980 fs RMS phase-jitter (10 kHz–900 kHz range) 320 fs RMS phase-jitter (10 kHz–900 kHz range)
Duty-factor	45%–55%
Unloaded signal swing	3.3 V ±0.3 V

PXIe_SYNC100

Maximum slot-to-slot skew	125 ps
Accuracy	±25 ppm max
Phase-jitter (Typ)	3 ps RMS phase-jitter (10 Hz–10 kHz range) 980 fs RMS phase-jitter (10 kHz–900 kHz range) 580 fs RMS phase-jitter (10 kHz–900 kHz range)
Duty-factor	10%
Unloaded signal swing	3.3 V ±0.3 V

Physical and Environment

Operating Environment

Maximum altitude	5000 m
Ambient temperature range	0 to 55 °C

Relative humidity range	10 to 90%, noncondensing
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Storage Environment

Ambient temperature range	-40 °C to 70 °C
Relative humidity range	5% to 95%

Sound Pressure Level

Auto fan (up to ~25 °C ambient)	46 dBA
High fan	64 dBA

Sound Power

Auto fan (up to ~25 °C ambient)	56 dBA
High fan	76 dBA

Backplane

Size	3U
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Chassis Size and Weight

Width	440.2 mm
Depth	455.2 mm
Height	177.8 mm
Net Weight	12.65 kg
Gross Weight (with package, power cable)	16.55 kg

Order Information

- PXIe-2721 (PN : JY7432378-01)
3U 18-slot All-hybrid Economical PXI Express Chassis , 6 GB/s system bandwidth

Shanghai Jianyi Technology Co., Ltd.

Address: Room 201, Building 3, NO.300 Fangchun Road, Shanghai

Post Code: 201203

Tel: 021-5047 5899

Website: www.jytek.com

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