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Find the *National Instruments / Dolch PXI-1025* at our website: ***Click HERE***

PXI - 1025 MegaPAC

Rugged, Portable Chassis for PXI

Compact Size

Rugged Dual-Chassis Structure

10.4 Active Matrix LCD

Filtered Forced-Air Cooling

8 Peripheral Slots for 3U PXI



PXI - 1025 MegaPAC

Environmental

Operating Temperature 0° to 50°C

Non-Operating Temperature -20° to 70°C

Operating Shock 30g 11ms 1/2 sine

Operating Vibration 5 - 500Hz 0.3g

Operating Non-Condensing Humidity 10 - 90%

Overview

The PXI-1025 MegaPAC is the first portable PXI computer platform designed with the utility, ruggedness, modularity, and expandability needed for demanding test and measurement, instrumentation, and communications applications. With eight expansion slots and 350W peak power, the fully self-contained PXI-1025 constitutes a complete high-per-formance measurement and automation system in a compact package. The PXI-1025 was jointly developed by National Instruments and Dolch Computer Systems.

Fully Self-Contained

The PXI-1025 MegaPAC was designed with the mobile technical professional in mind. This rugged chassis features a SVGA 10.4 in. active matrix LCD color display, fold down/removable keyboard, and a carrying handle/tilt stand.

Power Supply

The PXI-1025 comes with a 350W universal AC power supply. Use an external DC to AC power inverter for applications where only DC power is available.

Active Cooling

The PXI-1025 cooling system has a temperature sensor that controls the speed of its high-capacity fans to maintain proper internal temperature. Because of its sophisticated cooling system, the PXI-1025 can operate in ambient temperatures of 0˚ to 50 °C. In addition, when the ambient temperature is moderate, a “quiet” mode slows the fans, to reduce unnecessary noise.

Crash-Cart Ruggedness

The MegaPAC design incorporates a unique dual-chassis structure that “floats” the inner structure from the external chassis using an eight-point IsoGuard shock-isolating matrix. With this technique, harmful shock and vibration energy is absorbed before it can affect the internal components or PXI modules. Overtravel snubbers are mounted between the two chassis in case of transit drops or severe impact.

Installation

The PXI-1025 is an ideal chassis for portable applications. It comes with a carrying handle that doubles as a bench-top rest to tilt the chassis. It also contains mounting points which can be used for custom mounting configurations.

Dolch.

Rugged Solutions

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Operation in Standing Position

North America

Corporate Headquarters
3178 Laurelview Court
Fremont, CA 94538
Tel: 800.995.7560
Fax: 510.490.2487
E-mail: sales.usa@dolch.com
Web Site: www.dolch.com

San Diego, CA
Tel: 760.723.7900
Fax: 760.723.7910
E-mail: touchsales@dolch.com

Cleveland, OH
Tel: 440.350.9989
Fax: 440.350.1445
E-mail: sales.usa@dolch.com

Baltimore, MD
Tel: 410.384.1651
Fax: 410.384.1652
E-mail: sales.usa@dolch.com

Canada
Tel: 905.795.1544
Fax: 905.795.1548
E-mail: sales.ca@dolch.com

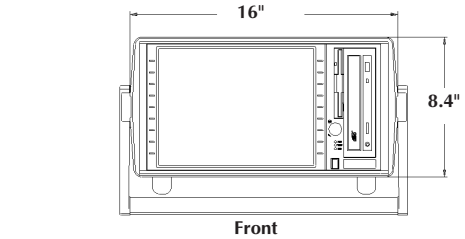
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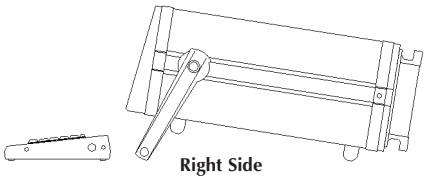
Germany
Tel: +49.89.608.6860
Fax: +49.89.608.6880
E-mail: sales.de@dolch.com

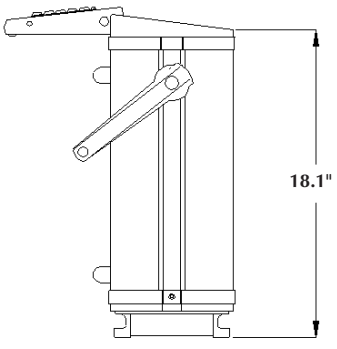
United Kingdom
Tel: +44.1908.263.622
Fax: +44.1908.263.220
E-mail: sales.uk@dolch.com

France
Tel: +33.1.39.30.44.50
Fax: +33.1.39.30.44.59
E-mail: sales.fr@dolch.com

Specifications	
Specifications	
Complies with PXI specification	
Accepts modules compliant with CompactPCI, PICMG 2.0 specification	
Peripherals / User Interface	
Display Type	10.4in color TFT, SVGA 800X600
Pointing Device	Pointing Stick Style, Integrated with Keyboard, 2 buttons
CD-ROM	24X Max
Keyboard	85 Key, Notebook Style
Electrical	
Input Voltage	90 to 265 VAC Universal 11 to 30 VDC *(Optional)*
Input Frequency	50 to 60Hz
Output	
Maximum Usable Power	350W
Cooling	
Fans	1 at 87cfm, 1 at 51cfm, with Filters
Physical	
Number of PXI Slots	8 (1 Controller, 7 Peripheral)
Dimensions	16 X 18.1 X 8.4in (40.7 X 40 X 21.3cm)
Weight	25lbs (11.4kg)
Mean Time Between Failures (MTBF)	
MTBF	17,000 hours *(Prediction Performed in Accordance with Belcore Methods)*
Operating Environment	
Ambient Temperature	0° to 50°C (Meets IEC 60068-2-1 and IEC 60068-2-2)
Relative Humidity	10 to 90% Non-Condensing (Meets IEC 60068-2-56)
Storage Environment	
Ambient Tempature	-20° to 70°C (Meets IEC 60068-2-1 and IEC 60068-2-2)
Relative Humidity	5 to 99% Non-Condensing (Meets IEC 60068-2-56)
Backplane	
Bare-Board Material	UL 94V-0 Rated
Connector	Conforms to IEC-917 and IEC 1076-4-101, UL 94V-0 Rated
Shock and Vibration	
Functional Shock	30g 11ms 1/2 Sine *(Meets IEC 60068-2-27 Test Profile Developed in Accordance with MIL-T-28800E)*
Random Vibration	Operating – 5 to 500Hz, 0.3g Non-Operating – 10 to 500Hz, 2.4 g *(Meets IEC 60068-2-64 Nonoperating Test Profile Developed in Accordance with MIL-T-28800E and MIL-STD-810E Method 514)*
Safety and EMC/EMI Compliance	
Safety	EN 61010-1:1993
EMC/EMI	CE, C-Tick and FCC Part 15
Electrical Emissions	EN 55011 Class A at 10m and FCC Part 15 Class A above 1GHz







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