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Find the *Max Technologies PXI-400* at our website: ***Click HERE***

PXI-400

PXI 3U Multi-Function
Intelligent Carrier Board



OVERVIEW

The PXI-400 carrier board is a high performance, multi-function PXI solution to your communication requirements, supporting up to two 8/32MHz Industry Pack (IPack) modules. This new generation of intelligent carrier boards is powered by a StrongArm 200MHz RISC processor and comes with 2 MB of SRAM and 16 or 64 MB of shared memory, permitting it to buffer and process high-bandwidth communication between the PXI host and the IPack interface modules.

The on-board firmware allows scheduling of transmit messages, bridging between protocols, complex label filtering, and triggering of recordings. Received messages are time-tagged with 32-bit microsecond precision, without requiring real-time intervention from the host system. Furthermore, multiple carrier boards can be time-synchronized resulting in unmatched precision in critical real-time applications.

MULTIPROTOCOL SUPPORT

The PXI-400 is complemented by MAX Technologies' IPack modules available for ARINC429/561/568/629/708/717, ASYNC RS-232/422/485, CSDB, ASCB, HDLC/SDLC, MIL-STD-1553, Pulse/Frequency generator, Analog and Discrete I/O and more. The PXI-400 also can be used with hundreds of third-party IPack modules.

FEATURES

- Multiprotocol support: ARINC 429/561/568/629/708/717 CSDB, ASCB, MIL-STD-1553, ASYNC RS-232/422/485, HDLC/SDLC and more
- Multi-I/O support: Analog I/O, Discrete I/O, Pulse and Frequency generator and more
- Runs multiple protocols and I/O simultaneously
- Powered by a 200MHz RISC CPU
- Holds up to two IPack modules
- 16 or 64 MB of shared memory, for data transfer buffers
- 32-bit one-microsecond precision time-tags
- IRIG-B signal input
- Provides accurate time synchronization between protocols
- On-board message scheduling, buffering, filtering, and monitoring off-load the host computer
- High channel I/O density

SOFTWARE

- MX-Foundation multi-protocol software API available for Windows and Linux
- MAXIM Windows GUI

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PXI-400

PXI 3U Multi-Function
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Specifications

Bus type
- PCI Local Bus 2.1 Standard
- PXI local bus compliant

Number of IPACK modules supported
- 2 single or 1 double

Synchronization
- SYNC IN/OUT: Synchronization between multiple boards
- Optional IRIG-B signal input (AM, 1PPS and Digital)

On-board memory
- Flash memory: 4 MB
- SRAM: 2 MB
- DRAM: 16 MB (64 MB optional)

IPACK Module bus clock
- 8/32 MHz

Physical dimensions
- PXI 3U card
- 178.3 mm x 100 mm without face plate

External connector type and location
- 100 I/O lines on two VHDCI 68-pin connectors on front face plate

Environmental
- Standard Operating Temperature: 0°C to 70°C
- Storage Temperature: -55°C to 100°C
- Relative Humidity: 5 to 95% (non condensing)

Reliability MTBF (MIL-HDBK-217 FN2, 30 °C)
- 642 200 hours

Maximum power consumption
- 3.3V @ 550 mA
- 5V @ 100 mA

  Note: Power consumption provided is for the carrier board only, it does not include installed IPACK module power consumption.

Additional features
- 1 RS-232 console port
- Card reset

IndustryPACK (IPACK) Modules

The PXI-400 is complemented by a wide range of IPACK modules available from MAX Technologies supporting Analog, Discrete, Serial ASYNC RS-232/422/485, HDLC/SDLC, MIL-STD-1553, ARINC-429, ARINC-561/568, ARINC-629, ARINC-708, ARINC-717, CSDB, ASCB, Pulse and Frequency generator and more.

Ordering Information

Part Number	Description
MAX-SBC-400105	PXI-400, PXI 3U, MULTI-FUNCTION INTELLIGENT CARRIER, 2 MODULE SITES, IRIG-B
MAX-AC-40300	1.5 m (60") interface cable for PXI/PCI-400-2 card with 2 DB-25 female connectors and 2 BNC connectors for IRIG-B (or SYNC IN and SYNC OUT).

www.maxt.com

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