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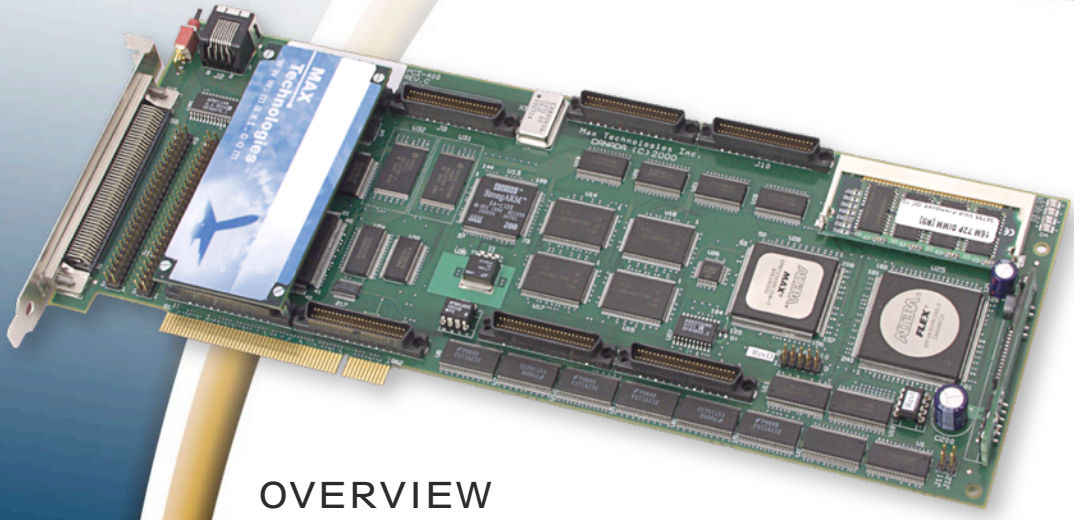
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Find the *Max Technologies PCI-400-4* at our website: ***Click HERE***

PCI-400

PCI Multi-Function
Intelligent Carrier Board



OVERVIEW

The PCI-400 carrier board is a high performance, multi-function PCI solution to your communication requirements, supporting up to four 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 32 MB of shared memory, permitting it to buffer and process high-bandwidth communication between the PCI 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 PCI-400 is complemented by MAX Technologies' IPack modules available for ARINC 429/561/568/629/708/717, ASYNC RS-232/422/485, CSDB, ASCB, HDLC/SDLC, MIL-STD-1553, Pulse/Frequency generator, Analog and Discrete I/O and more. The PCI-400 also can be used with hundreds of third-party IPack modules. Moreover, multiple protocols can be implemented and run simultaneously on a single PCI-400 carrier board and all the data transferred is time-synchronized, even between multiple protocols and multiple boards.

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 200 MHz RISC CPU
- Holds up to four IPack modules
- 16 or 32 MB of shared memory, for data transfer buffers
- 32-bit one-microsecond precision time-tags
- Provides accurate time synchronization between protocols and I/O
- 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 and IRIX
- MAXIM Windows GUI

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PCI-400

PCI Multi-Function
Intelligent Carrier Board

Specifications

Bus type
- PCI Local Bus 2.1 Standard

Number of IPACK modules supported
- 4 single or 2 double

Synchronization
- SYNC IN/OUT: Synchronization between multiple boards

IPACK Module bus clock
- 8/32 MHz

Physical dimensions
- PCI long card
- 12.273" x 4.8" (31.173 cm x 12.192 cm)

On-board memory
- Flash memory: 4 MB
- SRAM: 2 MB
- DRAM: 16 MB (32 MB optional)

External connector type and location
- 100 I/O lines on one DSUB connector on front face plate and 100 I/O lines on two IDC 50-pin connectors (on front face plate using optional adaptor)

Environmental
- Standard Operating Temperature: 0°C to 55°C
- Storage Temperature: -55°C to 125°C
- Relative Humidity: 5 to 95% (non condensing)

Reliability MTBF (MIL-HDBK-217 FN2, 30°C)
- 601 324 hours

Maximum power consumption
- 5V @ 1020 mA
- 12V @ < 1 mA
- -12V @ < 1 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 PCI-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-400101	PCI-400 LONG, 5V, INTELLIGENT CARRIER, 4 MODULE SITES
MAX-AC-40100	1.5 m (60") interface cable for PCI/CPCI/VME/VXI-400 card with 4 DB-25 female connectors

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