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OVERVIEW

The VME-400 carrier board is a high performance, multiprotocol VME 6U 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 64 MB of shared memory, permitting it to buffer and process high-bandwidth communication between the VME 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 VME-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 VME-400 also can be used with hundreds of third-party IPack modules. Moreover, multiple protocols can be implemented and run simultaneously on a single VME-400 carrier board and all the data transferred is time-synchronized, even between multiple protocols.

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 four IPack modules
- ▶ 16 or 64 MB of shared memory
- ▶ 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
- ▶ VXI Optional adaptor

SOFTWARE

- ▶ MX-Foundation multi-protocol software API available for Windows and Linux and IRIX
- ▶ Portable Low-Level ANSI-C library
- ▶ MAXIM Windows GUI



VME-400

VME 6U Avionics Multiprotocol and Multi-I/O Intelligent Carrier Board

Specifications

Bus type

- VMEbus specification C.1

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

- VME 6U x 4 HP
- 160 mm x 233.35 mm

On-board memory

- Flash memory: 4 MB
- SRAM: 2 MB
- DRAM: 16 or 64 MB

External connector type and location

- 200 I/O lines on two DSUB front connectors

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)

- 692 166 hours

Maximum power consumption

- 5V @ 740 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 VME-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-400103	VME-400, VME 6U, 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
MAX-AC-40700	Optional VXI adaptor

Additional configurations, extended temperature versions and accessories are available. Please contact us to inquire.

www.maxt.com

Corporate Headquarters

7005 Taschereau Boulevard, 3rd floor
Brossard (Quebec) Canada J4Z 1A7

Toll Free: (N. America) +1-800-361-1629

Direct: +1-450-443-3332 • Fax: +1-450-443-1618

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