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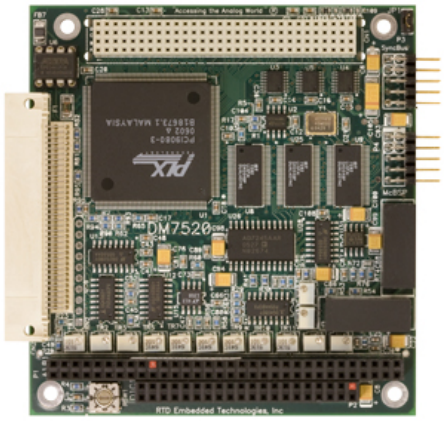


DM7520HR

PC/104-Plus 12-Bit Analog I/O DAQ Module with Bus Mastering, SyncBus & McBSP Serial Port

*Operating Temperature **-40°** to **+85°**C*

Key Features



DM7520 dataModule



Rugged IDAN configurations available

- PC/104 form factor
- PC/104-*Plus* stackable bus structure [click here for PCI-104]
- 3.3V and 5V PCI signaling compatible
- Bus Mastering
- High-speed Analog Inputs
  - 8 differential or 16 single-ended channels
  - 12-bit A/D with matched internal Sample and Hold
  - 0.8 µs conversion time (1.25 MHz throughput)
  - ±5, ±10, 0 to +10V Analog Input Ranges
  - Programmable binary gains of 1, 2, 4, 8, 16 & 32
  - 1K entry Channel-Gain Scan Memory with Skip Bit
- High-speed Data Paths
  - 33 MHz, 32-Bit PCI Bus
  - Multi-channel Buffered Serial Port (McBSP)
  - 1K sample buffer on A/D converter
  - 1K sample buffer on each D/A converter channel
  - Bus master transfer
- Versatile Triggering
  - Software, Pacer Clock, Burst Clock and External Triggers
  - Pre-, Post-, and About-Trigger Modes
  - Random scan, burst and multi-burst using channel-gain table
- Two fast analog outputs
  - 12-bit resolution
  - 7 µs full-scale settling time (+/-10V range)
  - ±5, +5, ±10, & +10V output ranges
  - 5mA output current
- Digital I/O
  - 3 Data-marker Input Bits
  - 1K byte digital input buffer
  - 8 bit-programmable digital I/O lines and an 8-bit programmable port
  - Advanced digital interrupts
  - -12/+24mA output drive currents
- Timers and Counters
  - Twelve 16-bit, 8 MHz timer/counters to support timing and counting functions (3 available for User applications)
- Programmable Interrupt Source
  - Mating Connector Manufacturer: 3M
  - Part Number: 82068-6000

Software

- Includes software packages for the following Operating Systems:
  - DOS
  - Windows XP & 7 (32-bit)
  - Linux 2.4.x and 2.6.x
- Source code provided for easy porting to other platforms, including RTOSes.
- Data acquisition toolkits such as LabVIEW and MATLAB may be used with the Windows drivers.
- Example programs with source code provide a starting point for developing custom applications.

Recommended Accessories

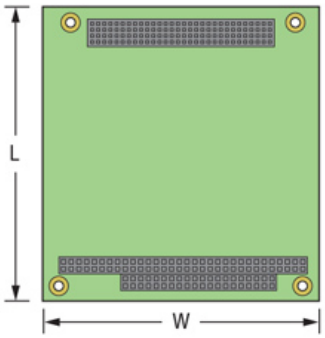
- Cable Kit XD68

Physical Attributes

- Dimensions

- Length (L): 3.775 inches (95.89 mm)
- Width (W): 3.550 inches (90.17 mm)
- Stand-off Height: 0.600 inches (15.24 mm)

- Weight: Approximately 0.34 lbs. (0.15 Kg)
- Standard Operating Temperature, 90% humidity non-condensing: -40 to +85°C
- Storage Temperature: -55 to +125°C
- MTBF: 86,058 hours
- Power Requirements: 2.5 W @ 5 VDC typical



Documentation and Downloads

- Hardware Manual
- Drivers and Example Programs
- Software Manuals

Ordering Information

Part Number	Description	Value OEM
DM7520HR	PC/104-*Plus* 12-bit, 1.25 MHz with 1K FIFO buffer, McBSP Serial Port	$845

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Designed and Made in the USA

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