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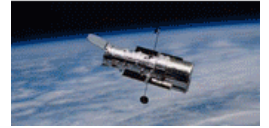
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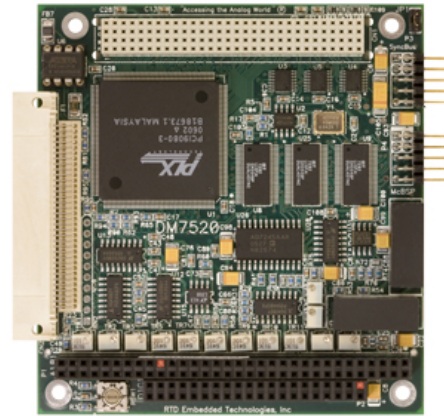
DM7520HR

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

Operating Temperature -40° to $+85^{\circ}\text{C}$

Key Features

- 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



DM7520 dataModule



Rugged IDAN configurations available

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.

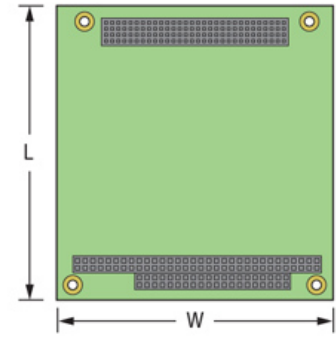
Recommended Accessories

- 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

RTD Embedded Technologies, Inc.

Designed and Made in the USA

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