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Third Party EXMs

Third party EXM expansion modules offer a variety of functionality

System Overview



Photo courtesy of Pacific Scientific

Compact expansion modules encased in various card cages and system enclosures.

Many third party companies have utilized the EXM expansion interface specifications document to design and manufacture EXM compatible modules and the list is growing.

The EXM expansion interface was developed by RadiSys Corporation as a viable solution for local I/O expansion for a variety of system form factors such as RadiSys' VME, VXI and EMC systems. The EXM expansion interface standardizes the local expansion of embedded PCs in a modular, reliable, space effective, and cost effective manner. Because the EXM expansion interface is electrically similar to the standard PC ISAbus, standard PC software can be used with EXM modules.

For more details on specifications and RadiSys modules, contact RadiSys for an EXM data sheet.

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HEXM-DIO1

Digital I/O Controller

The HEXM-DIO1 provides the opto-isolated 16 bit output and 16 bit input channels for general purpose I/O operation. Its features include:

- Using photo-coupler the I/O pins are isolated to EXM bus
- One common ground is provided for 8 channels of input or output port
- Input circuit can be connect to both sink and source type circuit
- IN7(input) line can generate IRQ5 or IRQ12 interrupt

ORDER CODE

HEXM-DIO1

COMPATIBILITY

HEXM-DIO1 has two 8 bit output port latches and two 8 bit gates for input. One other byte is assigned for interrupt handling. I/O programming is possible by accessing this hardware directly. There is no library or device driver available for any operating system. Multiple HEXM-DIO1s can work in the same EXM bus.

HARDWARE INTERFACE	
Memory space used	none
User-selectable base address	100h-3F8h (8 bytes step)
User-selectable IRQs	5, 12, none
User-selectable DMA channels	none

POWER REQUIREMENTS		
	Typical	Maximum
+5V	300 mA	500 mA
-12V	60 mA	100 mA

HEXM-PPD2

Motion Controller

The HEXM-PPD2 provides 2 axis positioner card. By sourcing the output pulses in to the stepping motor driver or DC/AC servo motor driver, HEXM-PPD2 can control the positioning easily. Its features include:

- Immediate stop
- Deceleration and stop
- Rapid preset operation with accel/deceleration
- Constant speed preset operation (linear constant speed positioning)
- Rapid operation
- JOG operation
- Rapid origin
- Constant speed origin
- Speed override

ORDER CODE

HEXM-PPD2

COMPATIBILITY

HEXM-PPD2 has PCL-240MK as its controller LSI. The module is programmed by accessing its registers directly. There are no library or device drivers available for any operating system. Multiple HEXM-PPD2s can work in the same EXM bus.

HARDWARE INTERFACE	
Memory space used	none
User-selectable base address	100h-3F0h (16 bytes step)
User-selectable IRQs	3, 5, 9, none
User-selectable DMA channels	none

POWER REQUIREMENTS	
	Maximum
+5V	750 mA

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Contact: Osamu Saito

HEXM-CTR2

Two Channel Counter

The HEXM-CTR2 provides two high speed 24 bit up/down counter channels. Its features include:

- 2 channel, binary 24 bits up/down counter
- Count range: +8,388,606 ~ -8,388,608
- Count speed:
Individual order input and pulse input with direction: 1MHz max
Phase difference input: 400KHz max
- Preset
- Read on the fly
- 3 way counting method.
Individual order input (UP, DOWN, PULSE)
Pulse input with direction (Direction, PULSE)
Phase difference (A, B)

ORDER CODE

HEXM-CTR2

COMPATIBILITY

HEXM-CTR2 has CCL-48M as its controller LSI. The module is programmed by accessing its registers directly. There are no library or device driver available for any operating system. Multiple HEXM-PPD2s can work in the same EXM bus.

HARDWARE INTERFACE	
Memory space used	none
User-selectable base address	100h-3F0h (16 bytes step)
User-selectable IRQs	3, 5, 9, 12, none
User-selectable DMA channels	none

POWER REQUIREMENTS	
	Maximum
+5V	750 mA

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