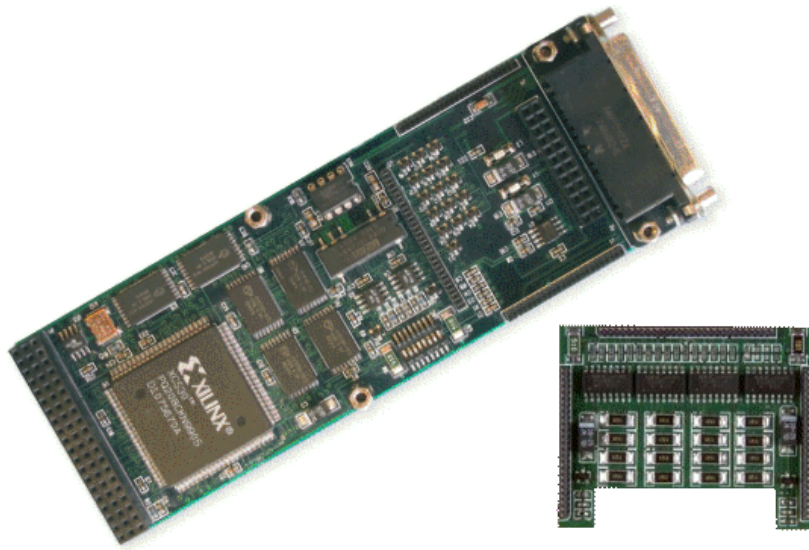


M203

Digital Input Module



The M203 is a digital input module that will sample and selectively store up to 16 bits of digital data along with a 31-bit time stamp at a rate up to 5 MHz. The 31-bit time tag allows unique time tagging data. The module has the ability to store all data at the specified sample rate or selectively store input values based upon changes in state of one or more of the inputs. This technique provides extensive real-time data compression for certain digital input signals.

The M203 comes along with the M203/AM104 series of signal conditioning modules which has to be purchased separately. The AM104 has 4 options:

- +5V Optocoupled Input Accessory Module; 100 KHz max (M203/AM104-1)
- +28V Optocoupled Input Accessory Module; 100 KHz max (M203/AM104-2)
- Contact Closure Sensing Accessory Module; 100 KHz max (M203/AM104-3)
- Programmable Threshold 0V/25.5V Accessory Module; 5 Mhz max (M203/AM104-4)
- Programmable Threshold -2V/+30V Accessory Module; 5 Mhz max (M203/AM104-5)

You can consult the manual for the specifications of these options.

Applications for the M203:

- > Acquisition of transient signals
- > Realtime Data Compression
- > Logic Analysis
- > Event Counting

Features:

- > Physically implemented on a single wide MA-Module adhering to the ANSI/VITA 12-1996 specification for M-Modules
- > The M203 may be installed in any carrier board supporting the M-Module specification

M-Module Compliancy

- * Complies with ANSI/VITA Std. 12-1996 for single MA Modules
- * Data Transfers: 16 bit
- * Interrupts: INTA & INTC
- * Triggers: TRIGA & TRIGB
- * Compatible with VXI, VME, PCI, cPCI and other M Module carriers

Interrupts

- * Data Stored
- * FIFO Half-Full
- * FIFO Full
- * Time-Stamp Rollover
- * Preset Change Of State
- * Preset Level Transition
- * Preset Bit Pattern

Product Characteristics

Number of Channels:

- * 16

Sample Rate:

- * Up to 5MHz

Input Debounce:

- * 0 to 128 ms
- * Software selected

Input Polarity:

- * Software selected

Input Types:

- * Plug in AM104s

Input Masking:

- * Any bit pattern programmable

Product Characteristics

Local Memory:

- * 32k x 48(31 bit time tag)

Sampling Strobe:

- * Internal to 5 MHz
- * Front panel to 5 MHz
- * Backplane trigger to 5 MHz (Source & prescaler software programmable)

I/O Connector:

- * 44-pin D-Sub or 24-pin peripheral

Temperature:

- * Operating 0°C to 50°C
- * Storage: -40°C to 70°C

Power:

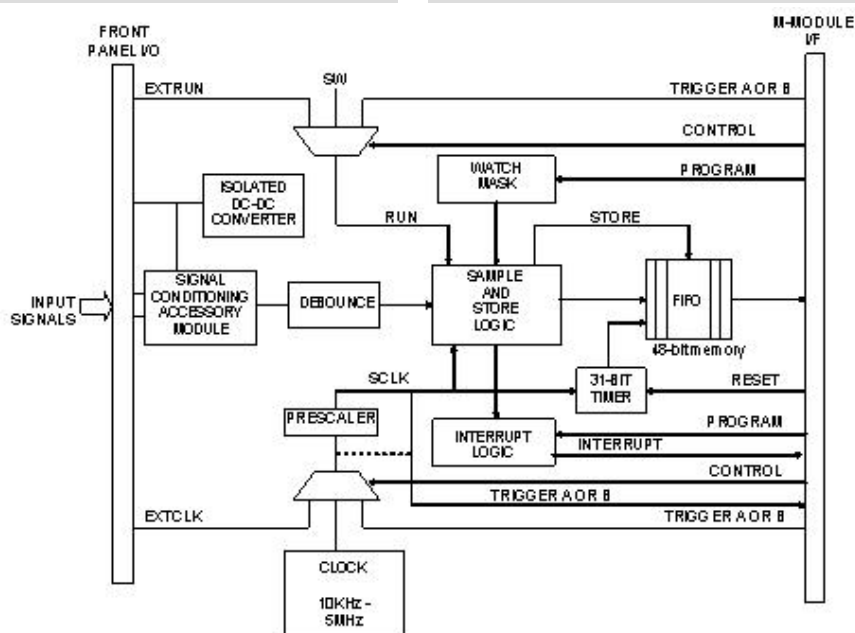
- * +5V @ 400 mA
- * +12V @ 0 mA* -12V @ 20 mA

Ordering Information

- * **M203/T01** Digital Input M-Module
- * **M203/AM104-1** Signal conditioning +5V Optocoupled (100 kHz max)
- * **M203/AM104-2** Signal conditioning +28V Optocoupled (100 kHz max)
- * **M203/AM104-3** Signal conditioning contact closure (100 kHz max)
- * **M203/AM104-4** Signal conditioning +25.5V, pgm threshold (5 MHz max)
- * **M203/AM104-5** Signal conditioning -2V/30V, pgm threshold (5 MHz max)

Ordering Information

- * **M203/SW** APIS based software for M203
- * **M200/VXI** VXI PnP driver for M203
- * **M203/MAN** M203 manual on paper



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