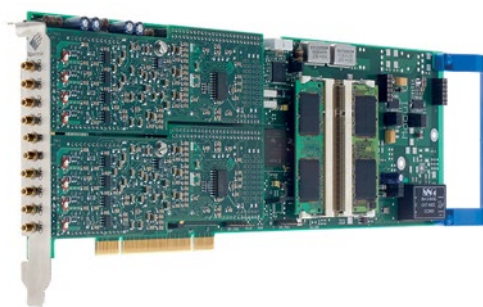# M2I Series

- A/D boards for transient recording applications
- Up to 8 simultaneous sampled input channels
- Multiple boards can be synchronized
- On-board memory up to 2 GSamples
- Hardware trigger functions

The M2I series offers up to 8 analog input channels with 12, 14 or 16 bit resolution, each channel up 100 MS/s sampling rate. This high sampling rate in conjunction with the on-board memory and the trigger capabilities makes this board best suitable for transient recording applications. Like the DEWE-ORION series the M2I series is supported by DEWESoft.

	M2I.3122	M2I.3132	M2I.4022	M2I.4652	M2I.4912	M2I.4932
Analog input						
Number of channels	8	8	4	8	8	8
Input resolution	12 bit	12 bit	14 bit	16 bit	16 bit	16 bit
Input ranges	8 ranges ±50 mV to ±10 V	8 ranges ±50 mV to ±10 V	6 ranges ±200 mV to ±10 V	8 ranges ±50 mV to ±10 V	6 ranges ±200 mV to ±10 V	6 ranges ±200 mV to ±10 V
Simultaneous sampling	Yes	Yes	Yes	Yes	Yes	Yes
Sample rate per channel	10 MS/s	25 MS/s	20 MS/s	3 MS/s	10 MS/s	30 MS/s
Combined sample rate (2 channels)	-	-	-	-	-	-
Sample rate total	80 MS/s	200 MS/s	80 MS/s	24 MS/s	80 MS/s	240 MS/s
Memory						
Standard on-board memory (total)	256 MS [1]					
On-board memory options	512 MS or 1 GS					
Additional functions						
Trigger	Edge, Window, Pulsewidth, Slope, External (several trigger sources can be combined with OR and/or AND)					
Trigger output	Yes					
External clock I/O, Reference clock	Yes					
Synchronize multiple boards	Option					
Optional functions [2]						
Multiple recording	Recording of trigger events with high repetition rates and very small dead time					
Gated sampling	Recording controlled by gate signal					
Dual timebase	Combination of slow continuous recording with fast acquisitions on trigger					
Timestamp	Timestamps for trigger events					
Additional I/O channels						
Digital input	32 (optional)	32 (optional)	8 (optional)	-		
Counter / Encoder input	Not available					
Analog output channels	Not available					
Physicals						
Bus type / Size	PCI / full length PCI slot required					
Software support						
Supported in	DEWESoft™, DEWETrans, SBench					

[1] 256 MS = 256 MegaSamples = 512 MByte (each measurement value requires 2 bytes)
[2] These options are supported in SBench software only!

Synchronized A/D conversion with different sampling rates

50 MS/s

25 MS/s

10 MS/s

SYNC SYNC SYNC

Test & Measurement Solutions

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DEWE2 Dedicated Instruments Instruments Front-ends Signal Conditioning Components Software

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