

Specifications

GEN SERIES BASIC 1M DIGITIZER

Basic 1M Digitizer

Analog Input Sections

Number of Channels

Input Type Input

single ended metal type BNC, Connectors outer shell grounded **Input Ranges** \pm 1.0 V, \pm 2.0 V, \pm 5.0 V, ± 10 V, ± 20 V, ± 50 V, plus variable gain in

1000 steps (0.1 %) Offset 1000 steps (0.1 %)

(zero position)

DC, GND Input Coupling Input 1 ΜΩ

Impedance Maximum Static

0.1 % full scale Error (MSE)

Noise 0.02 % full scale **Analog Bandwidth** 500 kHz (-3 dB) Overload Protection 250 Volt

Number of Slots 1. incl. signal conditioners

Acquistion

Sample Rate **ADC Resolution Anti-Alias Filters**

From 1 MS/s to 0.1S/s, 16 bit (0.0015 %) Bypass, Time-,

Frequency- domain optimized

Time Domain 7-pole Bessel 250 kHz, optimal step response

Frequency Domain 7-pole Butterworth

400 kHz, extended frequency response

Digital Decimation Off, Frequency domain **Filters** Frequency

optimized 12-pole FIR at sample rate divided by 4, 10,

20,40

Transient Memory

Standard 128 MS per card, shared by enabled channels.

8 channels 16 MS per channel

Triggering

Domain

Each channel has individual dual-level trigger detection with selectable hysteresis, modes and qualifiers.

Pre- and o to full memory

post-trigger length

Trigger Rate Up to 1000 triggers per

second, zero re-arm

time

Resolution 16 bit for each level

(= 0.0015 %)

StatStream Real-time Analysis

Each channel includes real-time extraction of Max, Min, Mean, Peak-to-peak, and RMS values.

Acquisition Modes

Dual

Sweeps Triggered acquisition to

> RAM without sample rate limitations; for single or repetitive transients or intermittent phenomena

Continuous Direct storage to PC or

mainframe hard disc without file size limitations; triggered or untriggered; for long duration recorder type applications with up to 1 MS/s rate per channel; (maximum aggregate rate pending from mainframe configuration and PC)

Combination of Sweeps and Continuous; recorder type streaming to hard disc with

simultaneously triggered

sweeps in RAM



Head Office HBM

Im Tiefen See 45 64293 Darmstadt, Germany

Tel: +49 6151 8030 Email: info@hbm.com France HBM France SAS 46 rue du Champoreux, BP76 91542 Mennecy Cedex

Tel: +33 (0)1 69 90 63 70 Email: info@fr.hbm.com

HBM Sales Office Carl-Zeiss-Ring 11-13 85737 Ismaning

Tel: +49 89 92 33 33 0 Email: info@hbm.com

HBM United Kingdom 1 Churchill Court, 58 Station Road North Harrow, Middlesex, HA2 7SA

Tel: +44 (o) 208 515 6100 Email: info@uk.hbm.com

USA

HBM, Inc. 19 Bartlett Street Marlborough, MA 01752, USA

Tel: +1 (800) 578 4260 Email: info@usa.hbm.com PR China **HBM Sales Office** Room 2912, Jing Guang Centre Beijing, China 100020

Tel: +86 10 6597 4006 Email: hbmchina@hbm.com.cn

