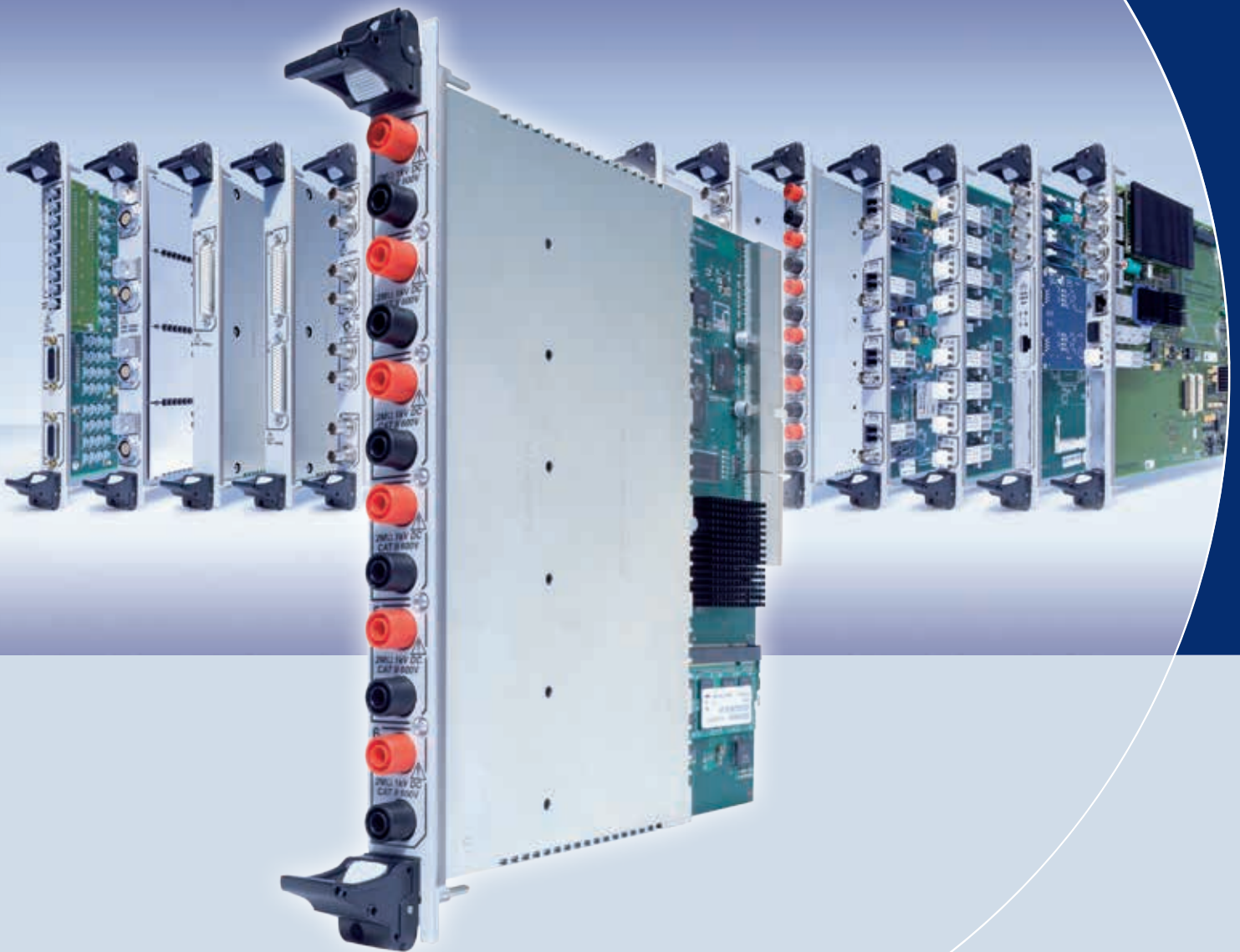


Stake everything on one card

The 1kV data acquisition card



Dynamic, safe and efficient

The new isolated 1 kV data acquisition card is specially designed for high input voltages. Thanks to the six input channels for voltages between ± 20 mV and $\pm 1,000$ V, users can now measure very small electric voltages and signals up to 1,000 V at sampling rates of up to 2 MS/s – and all that with just one data acquisition card. All channels acquire the measurement data in parallel, even at maximum speed, and record them continuously.



Standard-compliant safety

The 1 kV data acquisition card was designed so that the safety standards as per IEC61010 are met. Accordingly, the isolation as per category CAT II (600 V_{RMS}) or CAT III (300 V_{RMS}) ensures secure and reliable measurement results, even in the most demanding electrical application environments.

Technical details

- 6 isolated differential inputs, symmetrical
- ± 20 mV to $\pm 1,000$ V input voltage
- 600 V_{RMS} CAT II isolation
- Digital filters can be selected by the user
- 2 MS/s sampling rate
- 18 bit resolution
- Real-time calculations per channel

Perception – Software for data acquisition and evaluation

- Supports the new 1 kV data acquisition card
- Sensor database for simple setup of measurement channels
- Real-time calculations per channel, also cycle-based: Real effective value/Root Mean Square (RMS), minimum, maximum, mean, peak-to-peak, area, energy
- New languages available: Portuguese, Russian and Korean – Perception is now available in 8 languages



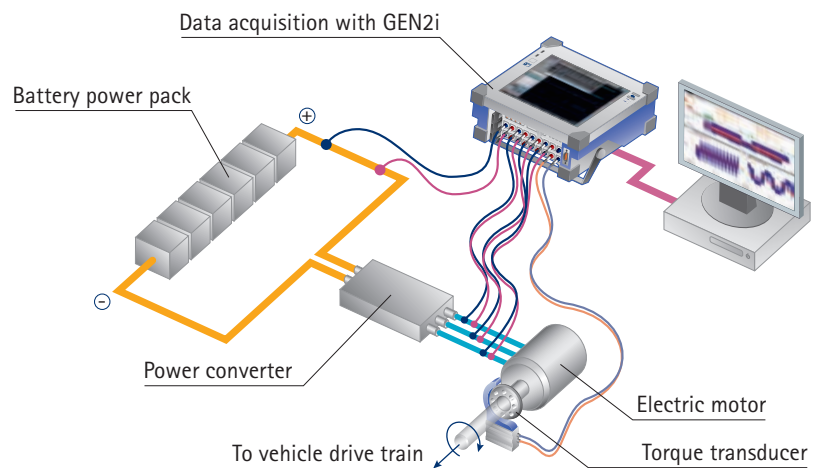
Perception

Customized solutions for extreme requirements

eDrive Testing – Designing electrical drives more efficiently

Mechanical and electrical signals are acquired simultaneously and dynamically.

- Synchronous measurement of high voltage signals, currents, torque and speed
- Performance calculations per half cycle



More information at
www.hbm.com/edrivetesting

Copper Bird Test – Efficiently testing functionality

Voltages and currents are measured in parallel in the electrical network of an airplane. Further parameters are then calculated from these measurement results.

- Testing the integration of all electrical systems and consumers
- Stability-testing of the electrical network
- Quality-testing of the electrical output



Preventative maintenance – for problem-free operation

Measurement of mains voltages and control signals with just one data acquisition card. Safety through integrated isolation.

- Preventative maintenance for motors and controllers in process systems
- Measurement of voltages and currents, as well as response times of relays, reaction times of control circuits, etc.
- On-site fault diagnosis





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measure and predict with confidence

