

Measuring via PCI-Express

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Category: [Industry, Real Estate & Construction](#)

Press release from: [BMC Messsysteme GmbH \(bmcm\)](#)



Maisach/Munich/Germany. With the PCIe-BASE, BMC Messsysteme GmbH (bmcm) is one of the first few manufacturers of measurement technology to come out with a competitive data acquisition card for the PCI Express interface.

PCI Express (Peripheral Component Interconnect Express), "PCIe" for short, is a PC interface allowing for the communication of peripheral components with the master processor of the PC. In the long term, PCIe will replace the PCI slots in the PC.

Being one of the first manufacturers in the field of PC measurement, BMC Messsysteme GmbH provides a solution for the acquisition of measurement data via PCIe by developing a PCIe data acquisition card in latest technology.

(--> www.bmcm.de/us/pr-pcie-base.html)

Like the previous model, the PCI multi-function card PCI-BASE1000, the PCIe-BASE features a modular concept providing enormous flexibility.

Optimized to the respective measurement application, data acquisition modules can be selected to equip the two module slots of the PCIe-BASE. It is the customer who decides about performance and price of his measurement system and who is able to optimize the price-performance-ratio.

The PCIe-BASE baseboard provides 32 digital channels so that the base board itself is a digital I/O card.

Bmcm offers plug-on modules with 16 analog inputs or up to 4 analog outputs within the selectable range of +/-1V, +/-2V, +/-5V or +/-10V varying in resolution and sampling rate.

(--> www.bmcm.de/us/pr-mad.html)

Particularly interesting for the automotive sector is a CAN module allowing scans with 1 Mbit transmission rate via two electrically isolating bus lines, especially since they are recorded synchronously in time to analog channels. The measured data can be displayed simultaneously and stored on the hard disk.

(--> www.bmcm.de/us/pr-mcan.html)

All modules can be used in any combination so that the customer gets his individual data acquisition system specially adapted to the measurement application.

So far, the PCIe-BASE is unrivaled in price. Equipped with one MAD12 module, the data acquisition card featuring 16 analog inputs and 32 digital I/O lines stays below 400 Euro (net).

The combination of the PCIe card with two 16-bit input modules MAD16f is a high-speed data acquisition system featuring

32 analog inputs, 1MHz overall sampling rate and 16 bit resolution, still available in the three-digit range.

Investment protection is consequently followed at bmcm. This means for users switching from the PCI card to the PCIe-BASE: All data acquisition modules of the PCI-BASE1000 are fully compatible. In addition, the assignment of the Sub-D37 female connector for signal connection remained identical so that the costs arising from switching to the new technology can be limited to an absolute minimum.

Designed in "PCIe x1" format, the PCIe-BASE can be installed in any PCIe slot.

Hardware drivers and ActiveX Controls are provided to install and program the PCIe measurement card. With NextView®, the professional software for measurement data acquisition and analysis, a perfect complement is available.

To show signals and test the functional range of the PCIe-BASE the version NextView®4 Live! is included with delivery for free use.

The PCIe data acquisition card from bmcm has a promising concept: modularity and compatibility in latest technology.

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*** About BMC Messsysteme GmbH (bmcm) ***

BMC Messsysteme GmbH was founded in 1994 as an independent corporation with headquarters in Maisach, app. 30 km west of Munich. bmcm is one of the only German companies that completely develops and produces in Germany. The products of data acquisition and PC technology from BMC Messsysteme GmbH stand for quality "made in Germany". A high value is set on keeping an excellent price/performance ratio. Since establishing a direct distribution in July 2006, customers have been able to profit from the advantage of direct contact to the manufacturer.

BMC Messsysteme GmbH serves the following business areas:

* Measuring components and PC measurement technology *

This comprises a wide range of connection systems, measuring amplifiers, data acquisition cards (internal and external), "ready-for-use" data acquisition systems, data loggers and the appropriate software for visualization, recording and analysis.
www.bmcm.de/us/prgr-products.html

* PC technology *

This area includes embedded PCs developed as complete solutions as well as single PC components often used in the automotive field.
www.bmcm.de/us/prgr-pc-tech.html

* D2M (Design to Manufacturing) and OEM products *

BMC Messsysteme GmbH develops and produces electronic components according to customer specifications.

www.bmcm.de/us/co-d2m.html

You will receive high-quality products manufactured already since the beginning of 2006 according to the RoHS directive. Of course, the corresponding documentation and CE test is always included.

A German documentation is obligatory for us, as well as an English description to be available to our international customers.

[**You can find this press release here**](#)