

# Hanover Fair 2007

Between 16 and 20 April 2007 Hanover, Germany, will once again be the international meeting place for more than 6,000 industrial companies from around the world. Hanover Fair 2007 is subdivided into 12 leading international trade shows, including Interkama+ (process automation), Factory Automation (production automation) and Industrial Building Automation (networked systems for building and factory automation). Sepp D. Heckmann, Chairman of the Board, Deutsche Messe, said: "The Hanover Fair is the largest international and cross-sector platform for technology, innovation and information transfer – enabling direct contact between suppliers and users from around the world. The Hanover Fair demonstrates the interaction and convergence of a wide range of technologies in one location – and 'live'."

Beckhoff will present Factory Automation solutions in Hall 9, Booth F06, including IPCs, I/O, Motion and Automation. The focus will be on PC Control solutions, EtherCAT-based automation, safety, Motion Control, and embedded solutions.

## XFC | eXtreme Fast Control Technology

As a technological highlight, Beckhoff will present the company's new, ultra-high-performance control solution: XFC is based on an optimized control and communication architecture comprising an advanced Industrial PC, ultra-fast I/O terminals with extended real-time characteristics, the EtherCAT high-speed Ethernet system, and TwinCAT automation software. With XFC, it is possible to achieve I/O response times < 100 µs. This technology opens up new process optimization options for the user that were not possible in the past due to technical limitations.

## CP72xx | The new Panel PC generation

With the innovative CP72xx Panel PC, Beckhoff launches a new generation of Panel PCs. This high-performance Panel PC is designed for mounting arm installation and integrates all features required for advanced machine control in an ultra-compact, slimline housing. Naturally, it also meets the basic industrial requirements such as robustness and long-term availability. The water- and dust-proof IPC is supplied in an aluminum housing and features a Beckhoff motherboard enabling very lean housing design with a housing depth of only 94 mm. The integrated add-on PC comes with a 1.5 GHz Intel® Celeron® M processor and can optionally be equipped with Intel® Pentium® M processors up to 1.8 GHz. (For a detailed description of the CP72xx see p. 10.)



## Industrial Motherboards from Beckhoff

As a further innovation, Beckhoff will present the company's range of Industrial Motherboards, which are developed and manufactured in-house. The motherboard and BIOS development initiatives enable Beckhoff to respond more quickly to new technologies in the PC market and to customer-specific requirements. The motherboards are used in Beckhoff Industrial PCs, Panel PCs, Embedded PCs and other products. At Hanover Fair, Beckhoff will present current developments from the embedded sector, such as the new Core™ Duo IPC motherboard series, which supports all typical profiles including ATX, slot CPU, 3.5" board, and PC/104.

## EtherCAT-based automation

The Beckhoff I/O systems are complemented through further signal variants and fieldbus connections for the Bus Terminals and Fieldbus Box modules. Special XFC I/O terminals for applications with high performance requirements extend the impressive EtherCAT Terminal portfolio.

In the Motion Forum, the focus will be on Beckhoff's AX5000 EtherCAT drives and the new AM3500 Servomotor series with high moment of inertia. These motors are particularly suitable for gearless applications or applications with poor mass inertia ratio in cases with particularly high loads.

On the software side, the TwinCAT range is extended with new PLC libraries and system software, including a remote version of the TwinCAT Simulation Manager, further PLC libraries for telecontrol applications and connectivity innovations. The Beckhoff presence at Hanover Fair is rounded off with participation in the EtherCAT Technology Group booth, where more than 40 exhibitors will present their real-time Ethernet solutions for EtherCAT.



### The main information at a glance:

- | Hanover Fair 2007, Germany, 16–20 April 2007
- | Opening hours: Monday–Friday 9 am–6 pm
- | Beckhoff main booth: Hall 9, Booth F06  
(Hall 9 is best approached via car park South 1 or East 3.)

### Beckhoff as exhibitor at partners' booths:

- | PROFIBUS user organisation: Hall 11, Booth A41
- | PLCopen: Hall 9, Booth H68
- | EtherCAT Technology Group: Hall 9, Booth F13

→ [www.hannovermesse.com](http://www.hannovermesse.com)

