

BECKHOFF

Company Overview

Beckhoff Automation is a global provider of open automation systems based on advanced PC-based control technology. The “New Automation Technology” philosophy at Beckhoff represents universal automation solutions used in a wide spectrum of high-tech applications around the world. These applications range from control of machines and robots used in manufacturing to Internet of Things (IoT) systems and much more. The world headquarters of Beckhoff Automation is in Verl, Germany while the Canadian headquarters is in Mississauga, Ontario.

Product Overview

The Beckhoff system architecture for machine, robot and plant automation promotes control hardware consolidation through powerful PC Control technology. Backed by TwinCAT® software and the EtherCAT® industrial Ethernet system, this approach takes the best from automation technology (AT) and IT, making the most powerful tools available to engineering teams in one universal environment. TwinCAT handles the programming for PLC, motion control and HMI, while adding other high-value functions for robotics, machine vision, safety, condition monitoring, cloud connectivity and IoT. This boosts engineering efficiency because the software packages share the same universal platform as all other machine and robot programming tools from Beckhoff.

Product Description

Beckhoff provides a wide range of hardware and software solutions for the most demanding machine and robot control tasks. The Beckhoff Industrial PC (IPC) range offers highly scalable processing performance for all applications from simple to complex. The processor families scale from entry-level ARM processors, through the latest Intel® multi-core and many-core

processor generations up to Intel® Xeon®. Beckhoff IPC form factors are flexible with numerous options available for mounting in cabinets, on poles or mounting arms with Panel PCs or on DIN rail with CX series Embedded PCs.

Of course, robust hardware needs capable software, so Beckhoff offers TwinCAT. Regardless of the PC-based controller type, TwinCAT is the software platform for all engineering and runtime in the Beckhoff system architecture. Numerous software packages cover all areas of automation and control, such as kinematic transformation, machine vision, PLC, CNC, IoT and much more.

On the networking side, Beckhoff is the creator of EtherCAT, the high-performance industrial Ethernet system for machines and robots. The world's leading robot manufacturers use EtherCAT, which is ideal not only for robotics, but also for I/O, drives and safety technology.

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