New CX81xx Embedded PC series

More computing power for small controllers

With the introduction of the new CX81xx Embedded PC series, small controllers now offer significantly increased computing power. The CX8190 for Ethernet is the first device in the series and is also the first PC-based controller in an ultra-compact “Bus Coupler format” for TwinCAT 3 automation software. The 32-bit, 600 MHz ARM Cortex™-A9 processor offers three times the CPU performance compared to the existing CX8000 series, as well as an eight-fold memory increase with 512 MB of RAM.

The CX8190 Embedded PC comes equipped with an Ethernet port and a 2-port switch for real-time Ethernet or EAP (EtherCAT Automation Protocol). Windows Embedded Compact 7 is the operating system used, and the small controller is programmed with TwinCAT 3 via the fieldbus interface or the additional Ethernet interface. TwinCAT 3 I/O software provides the basic runtime functionality, but further TwinCAT 3 supplements can be added as options.

The CX8190 also offers a 1-second UPS for storing persistent data, a 512 MB microSD card which can be extended up to 8 GB, and an impressive operating temperature range from -25 to +60 °C. EtherCAT Terminal (E-bus) and Bus Terminal (K-bus) I/O systems can be directly connected to the CX8190 Embedded PC, providing instant access to an industry-leading I/O product spectrum with more than 1000 available terminals.

The CX81xx Embedded PC series is being introduced with the device for Ethernet first and will be expanded to cover additional fieldbuses in the near future.

Further information:
www.beckhoff.com/CX8190