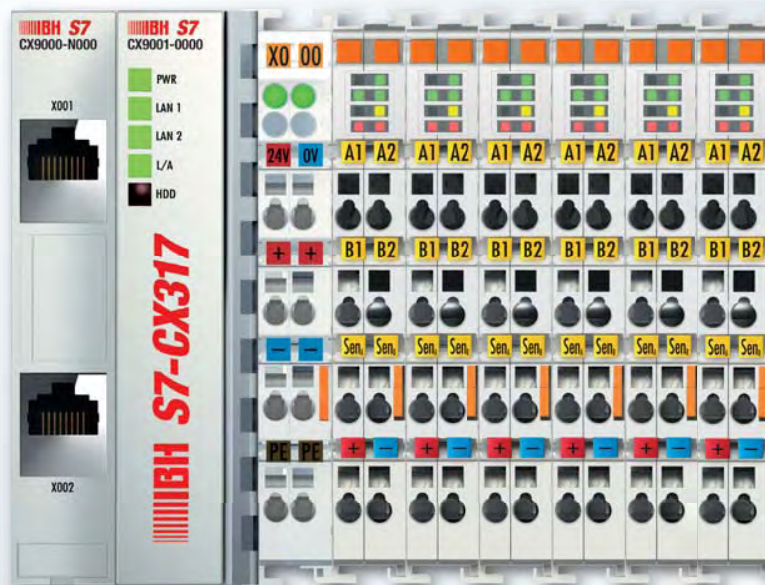


## The PLC, that connects two worlds



### IBH S7-CX317

The S7-compatible PLC based on Beckhoff-hardware with EtherCAT

**RAM:** 16 MB

**Load memory:** 4 MB

**Retain memory:** 64 KB

**Processing time:** 0,3µs/Instr.

- PU functions with Step<sup>®</sup>7 or S7 for Windows<sup>®</sup> over Ethernet with the ISO on TCP (RFC1006) or the IBHLink protocol.
- HMI applications can connect via ISO on TCP (RFC1006), the IBHLink protocol or via the optional IBH OPC server for the visualization PC.
- PLC to PLC communication via the integrated Ethernet CP.
- Based on the reliable and flexible Beckhoff-hardware.
- Using the EtherCAT technology, it is possible to integrate other fieldbus segments, as for instance Profibus DP, CANOpen, ASi and DeviceNet at any place of the EtherCAT network.
- Special functions for the peripheral devices (ADS functions) can be called via integrated function blocks.

## S7-CX317 PLC (Ref 3000)



Data exchange with the S7-CX PLC can be established with [S7 for Windows®](#) or the Siemens SIMATIC® manager.

Further it is possible to access the IBHsoftec [SoftPLC](#) via TCP/IP Ethernet using the *IBHNet* driver. Online functions are also possible using the Siemens ISO on TCP (RFC1006) protocol (a standard protocol within Step@7 and [S7 for Windows®](#)).

### **PLC - PLC communication:**

A data exchange between several PLC controls via Ethernet is possible.

The IBHsoftec **S7-CX** series contains a communications processor, which is compatible to the Siemens CP343/CP443. Send/Receive connections between two **S7-CX** controls, in addition, between **S7-CX** controls and for example Siemens PLCs or a IBHsoftec [SoftPLC](#), which runs off on a PC, can be realized. The configuration is made using the Step@7 Tool NetPro®.

The following protocols are supported:

ISO on TCP PU channel (PU, ProTool, WinCC, compatible OPC server etc..)

ISO on TCP Send/Receive passive

ISO on TCP Send/Receive active

ISO on TCP Fetch/Write passive

TCP Send/Receive passive

TCP Send/Receive active

TCP Fetch/Write passive

UDP Send/Receive

The new series of **S7-CX** PLCs unites the worlds of industrial PC and hardware PLC and fulfils the criteria for Programmable automation Controller. Depending on the task, the components of the modular control system can be plugged together and be built like a PLC into the switch cabinet or terminal box. The new S7-compatible controls support the Beckhoff fieldbus terminals and also the EtherCAT terminals via the appropriate IO interfaces as IO system. This offers the opportunity to use the entire range of the open and fieldbus-neutral Beckhoff IO system.

The **S7-CX** PLC will be supplied preconfigured, so it is immediately ready to use.

With the Beckhoff System Configurator, the variety of the Beckhoff I/O terminal modules can be configured.

The user takes benefit from a flexible automation system and can take advantage of the wide-spread S7-Programmingtool.

ia integrated function blocks.