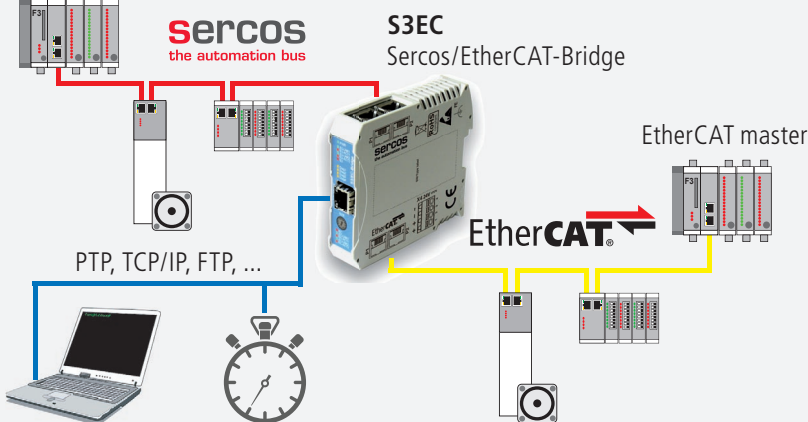
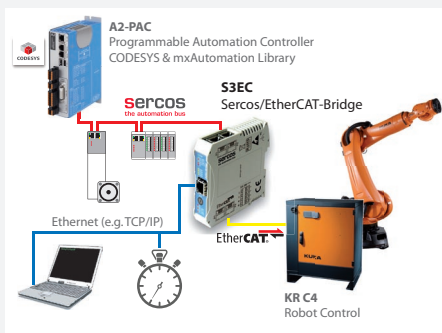


## S3EC Sercos®/EtherCAT-Bridge

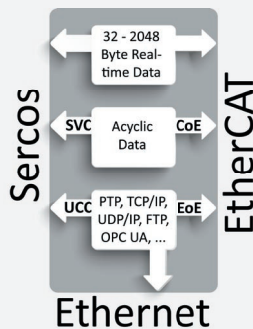
Sercos master



- The **S3EC** Sercos/EtherCAT-Bridge allows the bidirectional data exchange between Sercos and EtherCAT real-time Ethernet networks.



- **A2-PAC** control with **CODESYS** and **mxAutomation** library communicating in real-time with a **KUKA KR C4** robot control. (Source: KUKA Roboter GmbH)



- Beside cyclic and acyclic data also standard Ethernet protocols can be routed over the two real-time interfaces and in addition to that, also over the 3rd available standard Ethernet port.

- Sercos FSP-IO & EtherCAT DS-402 IO Profile
- Adjustable length of real-time data: 32 - 2048 Byte
- Acyclic communication over Sercos SVC and EtherCAT CoE
- Standard Ethernet communication over Sercos UCC, EtherCAT EoE and 3rd Ethernet port

With the Sercos/EtherCAT-Bridge it is possible to connect Sercos and EtherCAT masters to exchange data bidirectional between the two real-time Ethernet networks.

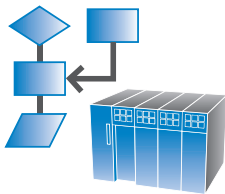
The Sercos/EtherCAT-Bridge acts on both busses as I/O device. The width of the real-time data is flexibly configurable in the range of 32 to 2048 bytes. The exchange of real-time data between the two busses is executed within one communication cycle. In addition to the application-specific I/O data also information about communication state and diagnostic data of Sercos or EtherCAT bus is transferred to the respective other side. This allows the two masters to react very fast on changes of the communication state or on error events.

Beside the real-time data channel the device also supports a bidirectional channel for acyclic data exchange. On the Sercos side this mailbox mechanism is represented by IDNs which are readable and writeable over the service channel. From EtherCAT side the mailboxes are accessible over CoE objects.

The device is carried out as compact module for DIN-rail mounting. For both Sercos and EtherCAT two RJ45 ports are available. A further RJ45 connector at the front side serves as standard Ethernet port. Over this interface devices can communicate with other devices connected to the real-time busses using the respective mechanisms (UC channel and EoE protocol). The IEEE 1588 master/slave also available on this interface can be used for clock synchronization.

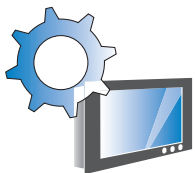
Technical Information		S3EC Sercos/EtherCAT-Bridge
<b>Order Code</b>		70069800
<b>Sercos Slave</b>		<ul style="list-style-type: none"> <li>• FSP-IO</li> <li>• SCP_VarCFG, SCP_NRTPC, SCP_SYNC, GDP etc.</li> <li>• 4 real-time data connections</li> <li>• rotary switch for adjustment of real-time data length (32 - 2048 Byte)</li> <li>• 2 x RJ45, 5 diagnosis LEDs</li> </ul>
<b>EtherCAT Slave</b>		<ul style="list-style-type: none"> <li>• DS-402 IO Profile</li> <li>• CoE, EoE</li> <li>• rotary switch for adjustment of real-time data length (32 - 2048 Byte)</li> <li>• 2 x RJ45, 5 diagnosis LEDs</li> </ul>
<b>Standard Ethernet Port</b>		<ul style="list-style-type: none"> <li>• 10/100 MBit/s</li> <li>• 1 x RJ45</li> <li>• IEEE 1588 Master/Slave (optional)</li> </ul>
<b>Dimension</b>	<b>H x D x W</b>	99 mm x 114,5 mm x 22,5 mm
<b>Power supply</b>		24VDC (19 - 30VDC)
<b>Weight</b>		120 g
<b>Housing</b>		plastic
<b>Mounting</b>		DIN-rail mounting
<b>Operating temperatur</b>		0°C - +55°C
<b>Protection class</b>		IP20
<b>Certifications</b>		CE

## Automata Product Overview



### Controls

- compact and modular controls for decentral and central system architectures
- IEC 61131-3 programmable
- Motion Control
- Sercos, EtherCAT, CAN, Ethernet



### Industrial PCs and Operator Panels

- fanless
- scalable performance
- different shapes
- different operating systems
- SoftPLC & SCADA software



### sercos products

Realtime Ethernet

- sercos hardware components and boards
- Master and slave driver software
- Control and IO systems
- Development, consulting, training

### Customized solutions

We adapt our standards to your needs. As partner of the medium-sized machine building industry we are working exactly according to your needs. Not more and not less!



**cannon**  
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