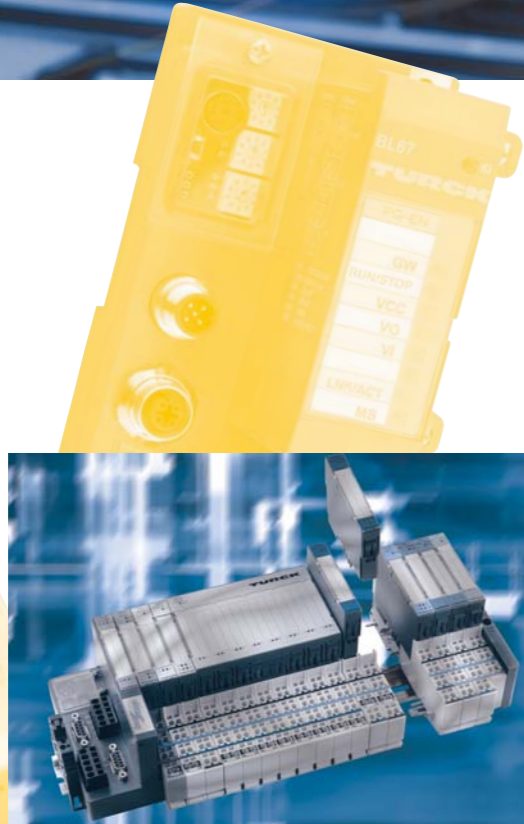
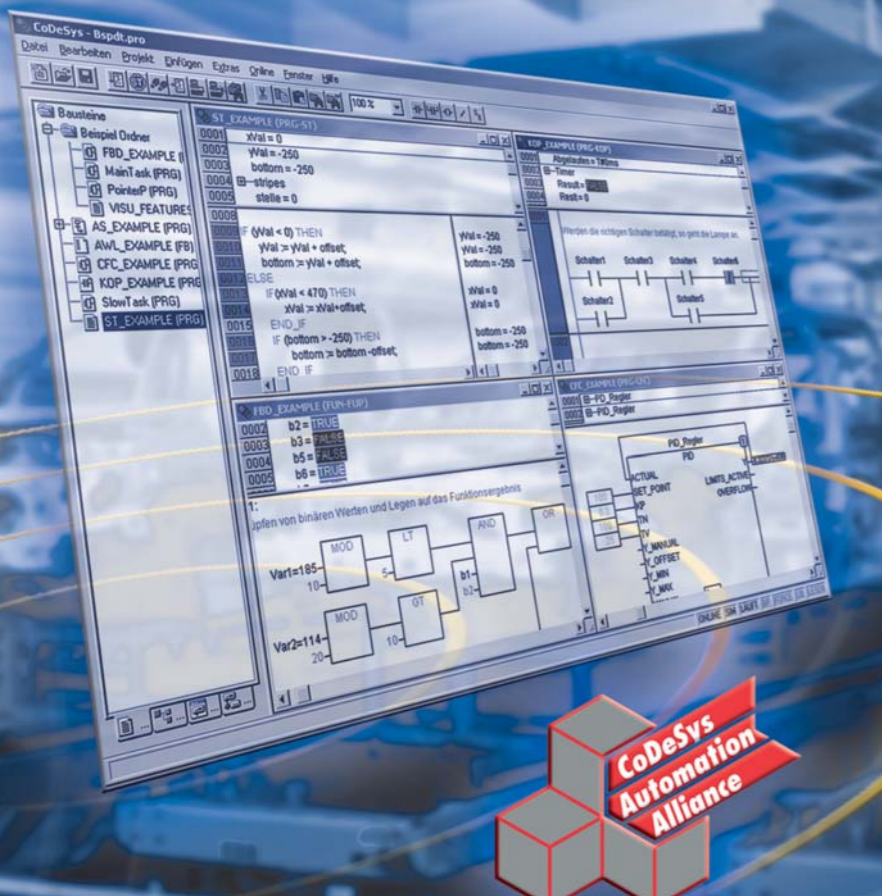


Industrial  
Automation

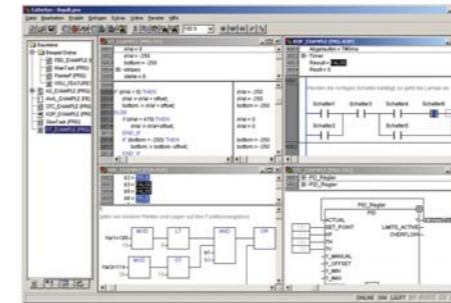
**PROGRAMMABLE  
GATEWAYS FOR  
BL20 AND BL67**



Industrial  
Automation

**CoDeSys - AUTOMATION ALLIANCE:  
PROGRAMMABLE TO  
INTERNATIONAL STANDARDS**

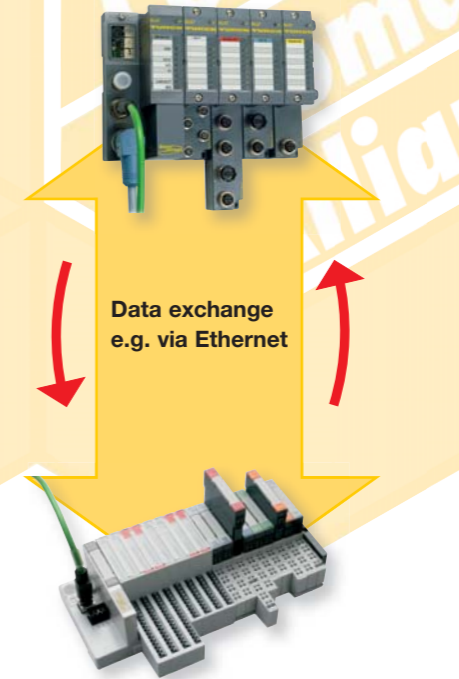
### CoDeSys - The Tool



- Programming system for automation components with PLC functionality
- Tried-and-trusted technology and simple handling
- Platform and manufacturer independent
- Programming compliant to IEC 61131-3
- Graphic editors for programming in sequential function chart, ladder diagram and function block diagram
- Text editors for programming in instruction list and structured text
- A range of diagnostics and commissioning functions

### Engineering and Configuration

- Target Support Package as a driver for the target system
- "Drag and Drop" functionality for hardware configuration
- Standardised editor for I/O configuration and parameterisation
- Symbolic variable declaration for I/O addresses



### Simple networking

- Fast and simple networking of heterogeneous systems
- Standardised transfer protocols such as e.g. TCP/IP and UDP/IP
- Network global variables
- Bidirectional data exchange between CoDeSys systems
- No additional programming required

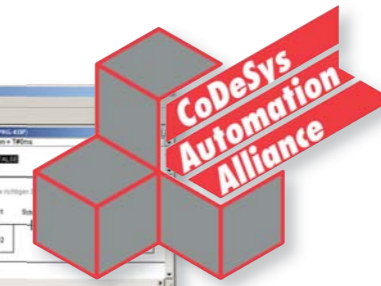
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# PROGRAMMABLE GATEWAYS FOR BL20 AND BL67

Distributed automated concepts can be implemented in the switch cabinet as well as directly in the field with programmable gateways. It is irrelevant if the gateways autonomously control an application or if they are operated in a network with a higher-level PLC.

- Programmable to IEC 61131-3 with CoDeSys
- Ethernet and RS232 programming interface
- 32 bit processor
- 512 KByte program memory
- 512 KByte data memory
- 16 KByte non-volatile memory
- Cycle time < 1ms for 1000 IL instructions
- Real-time clock
- Ethernet data exchange with other controls



**BL ident**

- RFID system consisting of data carrier, read-write heads and BL20/BL67 interface modules
- Enhancement in performance based on distributed processing
- User data exchange via integrated fieldbus connection
- Simplified handling via CoDeSys function blocks

**BL20**

- "Hot-swapping" capability via plug-in I/O level
- Screw or tension spring connection
- RS232, RS485 and SSI as interfaces for integration of complex field devices
- Attractively-priced ECONOMY modules with unbeatable signal densities

**BL67**

- Flexible design (without mounting rack or backplane)
- Compact design (32 mm module width)
- Plug-in I/O level
- RS232, RS485, SSI and CANopen as interfaces for integration of complex sensors and field devices

BL20 – Type overview

Modbus TCP



Gateway type designations	BL20-PG-EN	BL20-PG-EN-IP
Ident-No.	6827249	6827248
Fieldbus protocol	Modbus TCP	EtherNet/IP
Transmission rate	10/100 Mbps (auto-negotiation and autocrossing)	
Fieldbus connection	RJ45 connector	
Expansion options	all BL20 I/O modules (DI, DO, AI, AO, temperature etc.)	

BL67 – Type overview

Modbus TCP



Gateway type designations	BL67-PG-EN	BL67-PG-EN-IP	BL67-PG-DP
Ident-No.	6827241	6827246	6827240
Fieldbus protocol	Modbus TCP	EtherNet/IP	PROFIBUS-DP
Transmission rate	10/100 Mbps (auto-negotiation and autocrossing)		
Fieldbus connection	female, 4-pole, D coded, M12 x 1	female, reverse-keyed, M12 x 1	
Expansion options	all BL67 I/O modules (DI, DO, AI, AO, temperature etc.)		