MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6SL3055-0AA00-2EB0

CBE20 PROFINET COMMUNICATION BOARD

Used with the applicable SINAMICS S120 configuration.

REFERENCE PACKAGE

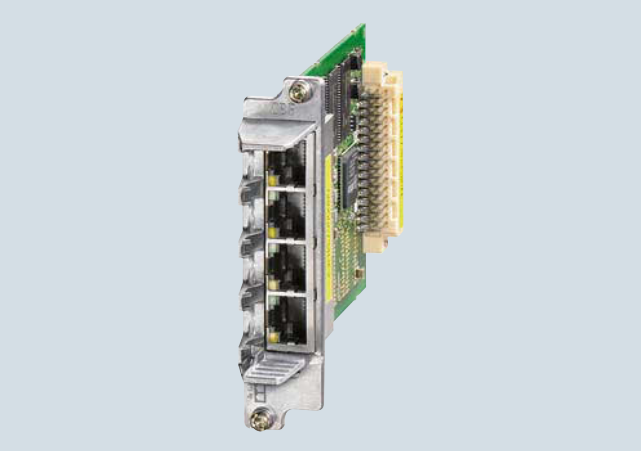
OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens D21.4 2017, CBE20 Communication Board, catalog p. 7/24 (PDF p.84)

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Overview



CBE20 Communication Board

The CBE20 Communication Board can be used to connect to a PROFINET IO network via a CU320-2 Control Unit.

The SINAMICS S120 drive system therefore assumes the function of a PROFINET IO device and can perform the following functions:

- PROFINET IO device
- 100 Mbit/s full duplex
- Supports real-time classes of PROFINET IO:
  - RT (Real-Time)
  - IRT (Isochronous Real-Time), minimum send cycle 500 µs
- Connection to control systems as PROFINET IO devices in accordance with PROFIdrive, Specification V4
- Standard TCP/IP communication for engineering processes using the STARTER commissioning tool
- Integrated 4-port switch with four RJ45 sockets based on the PROFINET ASIC ERTEC400. The optimum topology (line, star, tree) can therefore be configured without additional external switches
- Supports the functions "media redundancy" and "shared device"

The CBE20 Communication Board is required if:

- a SINAMICS S120 or SINAMICS S150 converter with a CU320-2 DP Control Unit (PROFIBUS) should be connected to a PROFINET-IO network
- SINAMICS Link is to be used to directly exchange data between several CU320-2 DP (PROFIBUS) or CU320-2 PN (PROFINET) Control Units without using a higher-level control system
- EtherNet/IP connectivity is required.

Integration

The CBE20 Communication Board plugs into the option slot on the CU320-2 Control Unit.

SINAMICS Link

SINAMICS Link can be used to directly exchange data between several CU320-2 DP (PROFIBUS) or CU320-2 PN (PROFINET) Control Units without using a higher-level control system. In this case, the CBE20 Communication Board is required. Possible applications for the SINAMICS Link include:

- Torque distribution for several drives
- Setpoint cascading for several drives
- Load distribution for drives coupled through a material web
- Couplings between SINAMICS G or SINAMICS S with the CU320-2 Control Unit and SINAMICS DC Master with CUD Control Units.

Participants other than CU320-2 Control Units and/or CUD Control Units of the SINAMICS DC Master cannot be integrated into this communication.

SINAMICS Link is activated by appropriately parameterizing the Control Units of the participants.

Selection and ordering data

Description	Article No.
CBE20 Communication Board	**6SL3055-0AA00-2EB0**
Accessories	
Industrial Ethernet FC	
• RJ45 Plug 180 (1 unit)	**6GK1901-1BB10-2AA0**
• RJ45 Plug 180 (10 units)	**6GK1901-1BB10-2AB0**
• Stripping tool	**6GK1901-1GA00**
• Standard cable GP 2x2	**6XV1840-2AH10**
• Flexible cable GP 2x2	**6XV1870-2B**
• Trailing cable GP 2x2	**6XV1870-2D**
• Trailing cable 2x2	**6XV1840-3AH10**
• Marine cable 2x2	**6XV1840-4AH10**

Additional information on connectors and cables is provided in

- section MOTION-CONNECT connection systems
- catalog IK PI
- Siemens Industry Mall: www.siemens.com/industrymall

Technical specifications

	CBE20 Communication Board 6SL3055-0AA00-2EB0
Current requirement at 24 V DC	0.16 A
Power loss	2.4 W
Weight, approx.	0.1 kg (0.22 lb)
Certificate of suitability	cULus