

SINAMICS S120 drive system

Supplementary system components

CBE20 Communication Board

Overview



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

The SINAMICS S120 then 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
- Connects to controls as PROFINET IO devices using PROFIdrive compliant with 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.
- The media redundancy and shared device functions are supported.

With SINAMICS firmware V4.5 and higher the CBE20 Communication Board also supports an ODVA EtherNet/IP protocol stack.

Integration

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

Technical specifications

CBE20 Communication Board 6SL3055-0AA00-2EB0

Current requirement at 24 V DC	0.16 A
Ambient temperature, permissible	
• Storage and transport	-40 ... +70 °C (-104 ... +158 °F)
• Operation	0 ... 55 °C (32 ... 131 °F)
Dimensions	130 mm × 78 mm (5.12 in × 3.07 in)
Weight, approx.	76 g (2.68 oz)
Approvals, according to	cULus

Selection and ordering data

Description	Order No.
CBE20 Communication Board	6SL3055-0AA00-2EB0

Accessories

Industrial Ethernet FC

• RJ45 Plug 145 (1 unit)	6GK1901-1BB30-0AA0
• RJ45 Plug 145 (10 units)	6GK1901-1BB30-0AB0
• 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

For further information on connectors and cables, please refer to Catalog IK PI or the Siemens Industry Mall.

www.siemens.com/industrymall