

## Industrial Communication

### PROFINET

#### IE/PB LINK

#### Overview



- Compact network transition between PROFINET and PROFIBUS
  - Connection to Industrial Ethernet via integrated 2-port real-time switch with 100 Mbps full duplex connection with autosensing for automatic switchover
  - For replacement parts: Connection to PROFINET also with 10 Mbps half duplex
  - Connection to PROFIBUS with 9.6 Kbps to 12 Mbps
- PROFINET IO proxy; Connection of PROFIBUS DP slaves to PROFINET IO controller in accordance with PROFINET standard: From the viewpoint of the IO controller, all DP slaves are handled like I/O devices with PROFINET interface, i.e. the IE/PB LINK is their proxy
- Cross-network PG/OP communication by means of S7 routing
- Cross-network access to data of S7 stations for visualization with S7 OPC Server and S7 routing; via the IE/PB LINK, access is possible from the Industrial Ethernet (for example for HMI applications with OPC Client interface) to data of the S7 stations on the PROFIBUS using the S7 OPC Server.
- High plant availability thanks to support of the Media Redundancy Protocol (MRP)
- Device replacement without the need for a programming device, using the C-PLUG removable data storage medium for backing up the configuration data
- Use in networks that support an exchange of devices without PG on the basis of the Link Layer Discovery Protocol (LLDP)
- SIMATIC ET 200SP design: Use of the BusAdapter (BA) of the SIMATIC ET 200SP system for freely selecting the connection technology and physical characteristics for the PROFINET side

#### Design

The IE/PB Link has all the advantages of SIMATIC ET 200SP design:

- Compact construction
  - The rugged plastic enclosure has the following on the front:
    - Two RJ45 ports for connecting to Industrial Ethernet; the connection is via the IE FC RJ45 plug 90 with 90° cable outlet or via a standard patch cable
    - 9-pin sub-D socket for connection to PROFIBUS
    - 4-pin terminal strip for connecting the external redundant supply voltage of 24 V DC (two infeeds)
    - Diagnostics LEDs
- Optional connection for Industrial Ethernet via BusAdapter (BA) of the SIMATIC ET 200SP system at the front
- Simple installation
  - The IE/PB LINK is mounted on a DIN rail
- Can be operated without a fan
- Fast device replacement in the event of a fault using the optional C-PLUG removable data storage medium (not included in scope of supply)

#### Ordering data

#### Article No.

##### Gateway

##### IE/PB LINK

Network transition between Industrial Ethernet and PROFIBUS with PROFINET IO functionality, S7 routing and data record routing, 10/100 Mbps Fast Ethernet, MRP, 9.6 to 12 Mbps PROFIBUS, NTP

**6GK1411-5AB10**

##### Accessories

##### IE FC TP standard cable GP 2x2 (type A)

4-wire, shielded TP installation cable for connection to IE FC outlet RJ45/IE FC RJ45 plug; PROFINET-compliant; with UL approval; sold by the meter, max. length 1 000 m, minimum order 20 m

**6XV1840-2AH10**

##### SIMATIC ET 200SP, bus adapter

- BA 2xFC  
2 x FastConnect connection for PROFINET
- BA 2xLC  
2 x LC glass fiber-optic connections for PROFINET
- BA LC/RJ45, glass fiber-optic/CU cable media converter  
1 x LC FO connection and  
1 x RJ45 connection for PROFINET
- BA LC/FC, glass fiber-optic/CU cable media converter  
1 x LC FO connection and  
1 x FastConnect (FC) connection for PROFINET
- BA 2xSCRJ  
2 x SCRJ FO connections, for PROFINET
- BA SCRJ/RJ45, glass fiber-optic cable/CU media converter  
1 x SCRJ FO connection and  
1 x RJ45 connection for PROFINET
- BA SCRJ/FC, glass fiber-optic cable/CU media converter  
1 x SCRJ FO connection and  
1 x FastConnect (FC) connection for PROFINET
- BA 2xRJ45  
2 x RJ45 sockets for PROFINET

**6ES7193-6AF00-0AA0**

**6ES7193-6AG00-0AA0**

**6ES7193-6AG20-0AA0**

**6ES7193-6AG40-0AA0**

**6ES7193-6AP00-0AA0**

**6ES7193-6AP20-0AA0**

**6ES7193-6AP40-0AA0**

**6ES7193-6AR00-0AA0**