SIMOTION
SIMOTION P – PC-based

■ Overview

The MCI PN Communication Board for SIMOTION P350-3 enables connection to a PROFINET IO network. This means that in terms of PROFINET, SIMOTION P350-3 is a PROFINET IO controller that offers the following functions:

- Communication as: PROFINET IO Controller, I-Device (controller and device simultaneously)
- 100 Mbit/s full duplex
- Supports real-time classes of PROFINET IO:
  - RT (Real Time)
  - IRT (Isochronous Real Time)
- Integration of distributed I/O as PROFINET IO devices
- Integration of drives as PROFINET IO devices through PROFIdrive according to the V4 specification
- Support for standard Ethernet communication, e.g.
  - for interfacing with SIMOTION SCOUT
  - for the connection of HMI systems
  - for communication with any other devices over TCP/IP or UDP communication
- Integrated 4-port switch with 4 RJ45 sockets based on the PROFINET ASIC, ERTEC400. The optimal topology (line, star, tree or ring) can therefore be constructed without the need for additional external switches.

■ Design

The MCI-PN communication board is inserted in the spare PCI slot of the SIMOTION P350-3.

■ Technical specifications

MCI-PN Communication Board	
Current consumption	900 mA at 5 V
Permissible ambient temperature	
• Storage and transport	-20 ... +60 °C (-4 ... +140 °F)
• Operation	+5 ... +55 °C (+41 ... +131 °F)
Weight, approx.	110 g (0.24 lb)
Dimensions	107 mm x 167 mm (4.21 in x 6.57 in)
Approvals	cULus (File No. E164110)

■ Selection and ordering data

Ordering data	Order No.
MCI-PN communication board	**6AU1390-0BA00-0AA0**

■ Accessories

The following PROFINET connectors and cables are recommended:

Description	Order No.
RJ45 FastConnect connector for Industrial Ethernet/PROFINET	
• 145° cable outlet	
- 1 pack = 1 unit	**6GK1901-1BB30-0AA0**
- 1 pack = 10 units	**6GK1901-1BB30-0AB0**
• 180° cable outlet	
- 1 pack = 1 unit	**6GK1901-1BB10-2AA0**
- 1 pack = 10 units	**6GK1901-1BB10-2AB0**
FastConnect cables for Industrial Ethernet/PROFINET [1]	
• IE FC Standard Cable GP 2x2	**6XV1840-2AH10**
• IE FC Flexible Cable GP 2x2	**6XV1870-2B**
• IE FC Trailing Cable GP 2x2	**6XV1870-2D**
• IE FC Trailing Cable 2x2	**6XV1840-3AH10**
• IE FC Marine Cable 2x2	**6XV1840-4AH10**
Stripping tool for Industrial Ethernet/PROFINET FastConnect cables	
• IE FC stripping tool	**6GK1901-1GA00**

■ More information

For further information about FastConnect cables, see Catalog IK PI (Industrial Communication for Automation and Drives) or the A&D Mall under "Communication / Networks / SIMATIC NET communication systems / PROFINET / Passive network components".

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[1] Sold by the meter; max. length 1000 m (3281 ft); minimum order 20 m (65.62 ft).