

Data sheet

6ES7972-0BB42-0XA0
product type designation

product description


PROFIBUS connector

PROFIBUS bus connector, RS 485, screw, with programming port, 35°

SIMATIC DP, Connection plug for PROFIBUS up to 12 Mbit/s with inclined cable outlet, 15.8x 54x 39.5 mm (WxHxD), terminating resistor with isolating function, With PG receptacle

Technical Product Detail Page

<https://l.siemens.com/1P6ES7972-0BB42-0XA0>

suitability for use

for connecting PROFIBUS stations to the PROFIBUS bus cable

transfer rate

transfer rate / with PROFIBUS DP

9.6 kbit/s ... 12 Mbit/s

interfaces

number of electrical connections

• for PROFIBUS cables

2

• for network components or terminal equipment

1

type of electrical connection

• for PROFIBUS cables

Screw

• for network components or terminal equipment

9-pin sub D connector

type of electrical connection / FastConnect

No

mechanical data

design of terminating resistor

Resistor combination integrated and connectable via slide switch

material / of the enclosure

plastic

locking mechanism design

Screwed joint

design, dimensions and weights

type of cable outlet

35 degree cable outlet

width

15.8 mm

height

54 mm

depth

39.5 mm

net weight

34 g

ambient conditions

ambient temperature

• during operation

-25 ... +60 °C

• during storage

-40 ... +70 °C

• during transport

-40 ... +70 °C

protection class IP

IP20

product features, product functions, product components / general

product feature

• silicon-free

Yes

product component

• PG connection socket

Yes

• strain relief

Yes

standards, specifications, approvals

certificate of suitability

• RoHS conformity

Yes

- UL approval

Yes

further information / internet links

internet link

- to website: Selection guide for cables and connectors
- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/109766358>
<https://www.siemens.com/tstcloud>
<https://www.siemens.com/simatic-net>
<https://sieportal.siemens.com>
<https://www.automation.siemens.com/bilddb>
<https://www.siemens.com/cax>
<https://support.industry.siemens.com>

security information

security information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)

[Miscellaneous](#)

[China RoHS](#)

General Product Approval

EMV

For use in hazardous locations



[FM](#)



[FM](#)

For use in hazardous locations

Maritime application



[Type Examination Certificate](#)

[CCC-Ex](#)



last modified:

10/30/2025

TURLL

YOUR GLOBAL AUTOMATION PARTNER

6ES7972-0BB42-0XA0

OFFICIAL DATASHEET & QUOTATION

- 100% New & Original Factory Sealed
- Global Express Shipping (DHL/FedEx/UPS)
- 12-Month Warranty Protection
- Professional Technical Support

CHECK STOCK & PRICE



Need Assistance? Scan to Chat on WhatsApp

sales@turll.com | +852 6339 7344