

SIMATIC PRB

Product Data Sheet

6ES7972-4AA50-0XA0

PROFIBUS PRB segment controller

SUPPLY VOLTAGE	NOMINAL SUPPLY CURRENT	SUPPLY INRUSH CURRENT	POWER DISSIPATION
24 V DC, 20.4 to 28.8 V	150 mA maximum	15 A maximum, approximately 200 micros	4.5 W maximum

Siemens 6ES7972-4AA50-0XA0 is a PRB segment controller in the SIMATIC PROFIBUS range. It supports PROFIBUS communication across the documented Power Rail Booster arrangement for mobile material-handling and industrial transport applications.

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VERIFIED TECHNICAL DATA

Supply voltage	24 V DC, 20.4 to 28.8 V
Nominal supply current	150 mA maximum
Supply inrush current	15 A maximum, approximately 200 micros
Power dissipation	4.5 W maximum
PROFIBUS rates	9.6, 19.2, 45.45, 93.75, 187.5 and 500 kbit/s
PRB differential voltage	60 V maximum
PRB line current	5 A maximum
Digital output rating	24 V AC/DC, 0.2 A maximum
Digital output isolation	4000 V AC
Digital input voltage	24 V DC $\pm 10\%$

ADDITIONAL PRODUCT DATA

Sensor supply resistance	1.4 kohm $\pm$ 5%
Input debounce time	3 ms
Wire-break detection delay	100 ms
Operating temperature	0 to +60 deg C
Storage temperature	-40 to +70 deg C

DOCUMENTED USE SETTINGS

Warehouse Logistics and Internal Material Handling: Automated Warehouse Material Handling.

Industrial Production and Manufacturing Material Transfer: Production Line Material Transfer.

Industrial Material Handling and Cargo Transfer: Industrial Lifting and Hoisting.

SYSTEM COMPATIBILITY

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PRODUCT EVIDENCE

SIMATIC Power Rail Booster operating instructions: PRB segment controller