

SIMATIC DP RS485 REPEATER

Product Data Sheet

6ES7972-0AA01-0XA0

PROFIBUS MPI Bus Repeater

OPERATING SUPPLY RANGE	UNLOADED SUPPLY CURRENT	PROFIBUS TRANSMISSION RATES	SEGMENT STATION CAPACITY
20.4 to 28.8 V DC	200 mA maximum	9.6 kbit/s to 12 Mbit/s	31 nodes maximum

Siemens 6ES7972-0AA01-0XA0 is a profibus mpi bus repeater in the SIMATIC DP RS485 Repeater range. It is used for extending compatible PROFIBUS and MPI RS485 bus segments in compatible industrial automation projects.

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VERIFIED TECHNICAL DATA

Operating supply range	20.4 to 28.8 V DC
Unloaded supply current	200 mA maximum
PROFIBUS transmission rates	9.6 kbit/s to 12 Mbit/s
Segment station capacity	31 nodes maximum
Ingress protection	IP20
Operating temperature	0 to 60 deg C
Storage temperature	-40 to 70 deg C
Permitted relative humidity	95% at 25 deg C
Power-supply connection	Terminal block
Bus-cable connection	2 terminal blocks

ADDITIONAL PRODUCT DATA

PG socket load at 5 V	90 mA maximum
PG socket load at 24 V	90 mA maximum
Supply current with 5 V PG load	230 mA
Supply current with 24 V PG load	300 mA
Nominal supply voltage	24 V DC

DOCUMENTED USE SETTINGS

Industrial Assembly and Component Production: Industrial Assembly and Production.

Chemical and Petrochemical Production Processes: Chemical Production Process Automation.

Pulp Processing and Paper Production: Pulp Production Process Control.

SYSTEM COMPATIBILITY

Integrate 6ES7972-0AA01-0XA0 only in the documented SIMATIC DP RS485 Repeater configuration. Match the installed interfaces and the engineered application before selecting this profibus mpi bus repeater.

PRODUCT EVIDENCE

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