

6DR2803-8C

Serial Interface Module

PRODUCT AND SYSTEM TECHNICAL REFERENCE

It exchanges SIPART controller process data and settings with a higher-level system through a jumper-selected RS232 or RS485 serial interface.

- Supports RS232 or RS485 signaling
- Operates from 300 to 9600 bit per second
- Transfers process variables and configuration data
- Provides galvanic isolation to the controller

VERIFIED IDENTITY

Article number	6DR2803-8C
Module designation	SES serial interface module
Transmittable signals	RS232 or RS485
Transmittable data	Operating states, process variables, parameters and configuration switches
Transmission procedure	DIN 66258 A or B
Character format	10 bits: start, 7-bit ASCII, parity and stop

Official source: Siemens SIPART DR Signal Converters Catalog MP 31
Publication: MP 31, 2019, SES module 6DR2803-8C

APPLICATION SNAPSHOT

SIPART supervisory communication	Links a SIPART controller to a higher-level station.
Serial process-data exchange	Transfers operating states, variables and setpoints serially.
Controller configuration link	Supports parameter and configuration access under the approved protocol.
SES module replacement	Restores the exact isolated serial-interface position.

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TECHNICAL SPECIFICATIONS

Article number	6DR2803-8C
Module designation	SES serial interface module
Transmittable signals	RS232 or RS485
Transmittable data	Operating states, process variables, parameters and configuration switches
Transmission procedure	DIN 66258 A or B
Character format	10 bits: start, 7-bit ASCII, parity and stop
Data rate	300 to 9600 bit/s
Transmission	Asynchronous, half-duplex
Addressable stations	32
Traffic monitoring	1 to 25 s or none
Galvanic isolation	Up to 50 V UC
RS232 cable capacitance	Maximum 2.5 nF
RS232 guideline length	50 m unshielded flat; 25 m shielded round
RS485 cable capacitance	Maximum 200 nF in MP31 catalog
RS485 guideline length	1200 m unshielded flat; 600 m shielded round in MP31 catalog

MATCHED COMPONENTS

- compatible SIPART DR controller
- higher-level supervisory or configuration system
- jumper-selected RS232 or RS485 wiring
- approved serial protocol and station parameters

TECHNICAL ACCEPTANCE CRITERIA

Exact identity	Complete 6DR2803-8C marking matches the controlled record
System match	Installed position belongs to the Siemens SIPART DR controller system
Companion hardware	All required rack, connector, field and project items are reconciled
Electrical limits	Supply, ranges and signal values remain within the named Siemens data
Diagnostics	Module, rack, network and host indications are understood and accepted
Controlled response	The isolated rs232 or rs485 serial controller data function is proven and recorded

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Record the RS232/RS485 jumper selection, data rate, station address, monitoring time, cable type and protocol before removal; verify controller-specific interface support.

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SYSTEM INTEGRATION & FAQ

DOCUMENTED APPLICATIONS

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Serial process-data exchange	Transfers operating states, variables and setpoints serially.
Controller configuration link	Supports parameter and configuration access under the approved protocol.
SES module replacement	Restores the exact isolated serial-interface position.

PRODUCT PRECAUTIONS

- Verify the complete 6DR2803-8C marking and the assigned Siemens SIPART DR controller system position before work.
- Isolate all applicable power and isolated rs232 or rs485 serial controller data field energy before disconnection.
- Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- Restore power in a controlled sequence and review module, rack and host diagnostics.
- Place the connected sipart supervisory communication process in the approved maintenance state.
- Record every connector, conductor, address, jumper and project identity before removal.
- Confirm the installed compatible SIPART DR controller and jumper-selected RS232 or RS485 wiring against the approved system record.
- Prove the intended serial process-data exchange function and retain the final acceptance result.

ENGINEER FAQ — PART 1

1	Which serial standards are available on Siemens 6DR2803-8C?	The SES module supports jumper-selected RS232 or RS485 operation in the documented SIPART controller arrangement.
2	What data can 6DR2803-8C transmit?	It exchanges operating states, process variables, parameters and configuration-switch information with a higher-level system.
3	Which frame and character format are documented for 6DR2803-8C?	Siemens specifies DIN 66258 A or B with a 10-bit character containing start, 7-bit ASCII, parity and stop bits.
4	What data-rate range applies to 6DR2803-8C?	The documented transmission speed is 300 to 9600 bit/s using asynchronous half-duplex communication.

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ENGINEER FAQ & RELATED PRODUCTS

1	How many stations can 6DR2803-8C address?	The technical data lists up to 32 addressable stations with traffic monitoring from 1 to 25 seconds or disabled.
2	What isolation boundary is provided by 6DR2803-8C?	The module provides galvanic isolation between serial Rxd/Txd and the controller, rated up to 50 V UC in the catalog data.
3	Which cable limits must be checked for 6DR2803-8C?	Verify the selected RS232 or RS485 cable capacitance and the Siemens guideline length for the actual cable construction.
4	How is 6DR2803-8C accepted after service?	Restore jumpers and serial parameters, confirm stable polling without timeouts, and verify process values and configuration data at both ends.

RELATED PRODUCTS ON APTER POWER

01	GE IC693MDL741G	Related industrial automation product
02	GE IC670MDL640	Related industrial automation product
03	GE DS200SLCCG3AFG	Related industrial automation product
04	GE F31X134EPRBEG1 FR00 0	Related industrial automation product
05	Allen-Bradley 2711P RC3	Related industrial automation product
06	Schneider Electric PC E984 685	Related industrial automation product
07	Allen-Bradley 2711 B6C1	Related industrial automation product
08	ABB DSTD110A	Related industrial automation product

Manufacturer source	Siemens SIPART DR Signal Converters Catalog MP 31
Publication	MP 31, 2019, SES module 6DR2803-8C
Technical boundary	Values are limited to this exact-model source record
Acceptance evidence	Retain the as-left identity, diagnostics and controlled test result

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