

SIEMENS

Product data sheet

6ES7277-0AA22-0XA0
SIMATIC S7-200, PROFIBUS DP SLAVE MODULE, 9.6KB TO 12MB, 1 PORT, PROFIBUS DP/MPI
Supply voltages
Load voltage L+

Rated value (DC) 24 V

permissible range, lower limit (DC) 20.4 V

permissible range, upper limit (DC) 28.8 V

Current consumption

from backplane bus 5 V DC, max. 150 mA

 from sensor current supply or external current supply
(24 V DC), max. 180 mA ; 30 to 180 mA

Power losses

Power loss, typ. 2.5 W

Hardware configuration

 Connectable nodes TD 200 as of V2.0, OP, TP, PG/PC, S7-300/400,
PROFIBUS DP master

Communication functions

Bus protocol/transmission protocol PROFIBUS DP (slave), MPI (slave)

Number of connections

MPI connections, max. 6

number of which are reserved for OP communication 1

of which reserved for PG communication 1

Interfaces

Number of RS 485 interfaces 1

5 V DC

Output current, max. 90 mA

24 V DC

Voltage range 20.4 to 28.8 V

Output current, max. 120 mA

Current limiting 0.7 to 2.4 A

Connection method

Plug-in I/O terminals	No
PROFIBUS DP	
Transmission rate, max.	12 Mbit/s ; 9.6 / 19.2 / 45.45 / 93.75 / 187.5 / 500 Kbit/s; 1 / 1.5 / 3 / 6 / 12 Mbit/s
Node addresses	0 to 99, adjustable
Cable length, max.	1200 m ; 100 to 1200 m, depending on transmission speed
Number of stations in network, max.	126 ; of which max. 99 EM 277
Number of stations per segment, max.	32
automatic detection of transmission speed	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
Bus fault (red)	Yes
CPU error (red)	Yes
DX mode (red)	Yes
Power supply (red)	Yes
Isolation	
Isolation checked with	between external signal and control logic: 500 V AC (galvanic); 5 V DC interface: Isolation between output and module as well as 24 V DC supply voltage: 500 V AC (max. 1 min.); 24 V DC interface: Isolation no; same circuit as 24 V DC supply voltage
Dimensions and weight	
Dimensions	
Width	71.2 mm
Height	80 mm
Depth	62 mm
Weight	
Weight, approx.	175 g
Status	Dec 13, 2010