

SIMATIC DP, Interface module IM 151-1 Standard for ET 200S; incl. termination module Data volume of 244 bytes each for inputs and outputs; max. 63 I/O modules PROFIBUS DP V0 and V1 up to 2 m width can be connected; Bus connection via 9-pin D-sub



General information	
Product type designation	IM 151-1 ST
Vendor identification (VendorID)	806Ah
Product function	
• Isochronous mode	No
Supply voltage	
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
from supply voltage 1L+, max.	200 mA
Power loss	
Power loss, typ.	3.3 W
Address area	
Addressing volume	
• Inputs	244 byte
• Outputs	244 byte
Interfaces	

Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 / 12 Mbit/s
<b>PROFIBUS DP</b>	
<ul style="list-style-type: none"> <li>• Output current, max.</li> </ul>	80 mA
<ul style="list-style-type: none"> <li>• SYNC capability</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• FREEZE capability</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Direct data exchange (slave-to-slave communication)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Design of electrical connection</li> </ul>	9-pin sub D socket
<ul style="list-style-type: none"> <li>• Cable length, max.</li> </ul>	1 200 m
<b>Protocols</b>	
Supports protocol for PROFINET IO	No
PROFIBUS DP	Yes
<b>Protocols (Ethernet)</b>	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	No
<b>Interrupts/diagnostics/status information</b>	
Alarms	Yes
Diagnostics function	Yes
<b>Diagnostics indication LED</b>	
<ul style="list-style-type: none"> <li>• Bus fault BF (red)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Group error SF (red)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Monitoring 24 V voltage supply ON (green)</li> </ul>	Yes
<b>Potential separation</b>	
between backplane bus and electronics	No
between electronic block and PROFIBUS DP	Yes
between supply voltage and electronics	No
<b>Isolation</b>	
Isolation tested with	500 V DC
<b>Standards, approvals, certificates</b>	
CE mark	Yes
UL approval	Yes
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>• min.</li> </ul>	0 °C
<ul style="list-style-type: none"> <li>• max.</li> </ul>	60 °C
<b>Dimensions</b>	
Width	45 mm
Height	119.5 mm
Depth	75 mm

## Weights

Weight, approx.

150 g

**last modified:**

08/25/2020