



Figure similar

\*\*\*Spare part\*\*\* SIMATIC DP, Connection ET 200M IM 153-2 High Feature for max. 12 S7-300 modules with redundancy capability, Timestamping suitable for isochronous mode New features: up to 12 modules can be used Slave INITIATIVE for Drive ES and Switch ES Expanded quantity structure for HART auxiliary variables Operation of the 64-channel modules 32 signals/slot

General information	
Product type designation	IM 153-2 DP HF
Vendor identification (VendorID)	801Eh
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2,5 A
Mains buffering	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms
Input current	
Current consumption, max.	600 mA
Inrush current, typ.	3 A
I <sup>2</sup> t	0.1 A <sup>2</sup> ·s
Output current	
for backplane bus (5 V DC), max.	1.5 A
Power loss	
Power loss, typ.	5.5 W
Address area	
Addressing volume	
<ul style="list-style-type: none"> <li>Inputs</li> <li>Outputs</li> </ul>	244 byte 244 byte
Hardware configuration	
Number of modules per DP slave interface, max.	12
Time stamping	
Accuracy	1 ms; 1 ms at up to 8 modules; 10 ms at up to 12 modules
Number of message buffers	15
Messages per message buffer	20
Number of stampable digital inputs, max.	128; Max. 128 signals/station; max. 32 signals/slot
Time format	RFC 1119
Time resolution	0.466 ns
Time interval for transmitting the message buffer if a message is present	1 000 ms
Time stamp on signal change	rising / falling edge as signal entering or exiting
Interfaces	
Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s

1. Interface	
automatic detection of transmission rate	Yes
Interface types	
<ul style="list-style-type: none"> <li>• Output current of the interface, max.</li> <li>• Design of the connection</li> </ul>	70 mA 9-pin sub D socket
PROFIBUS DP slave	
<ul style="list-style-type: none"> <li>• GSD file</li> <li>• automatic baud rate search</li> </ul>	SI04801.GSD Yes
Protocols	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
Protocols (Ethernet)	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	No
PROFIBUS DP	
<ul style="list-style-type: none"> <li>• Number of node addresses, max.</li> </ul>	1 to 125 permitted
Services	
<ul style="list-style-type: none"> <li>— SYNC capability</li> <li>— FREEZE capability</li> <li>— Direct data exchange (slave-to-slave communication)</li> </ul>	Yes Yes Yes; Sender
Potential separation	
Potential separation exists	Yes
Isolation	
Isolation tested with	Isolation voltage 500 V
Degree and class of protection	
IP degree of protection	IP20
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> <li>• min.</li> <li>• max.</li> </ul>	0 °C 60 °C
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> <li>• Installation altitude above sea level, max.</li> </ul>	3 000 m
configuration / header	
Configuration software	
<ul style="list-style-type: none"> <li>• STEP 7</li> </ul>	Yes; STEP 7 / COM PROFIBUS / non-Siemens tools via GSD file
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	360 g
<b>last modified:</b>	3/2/2021 