

SIMATIC DP, interface DP/PA-Link and ET200M IM153-2 HF for extended temperature range 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 +++ Observe compatibility instructions in manual +++

General information	
Product type designation	IM 153-2 OD
Firmware version	V6.1
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	
• Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	650 mA
Inrush current, typ.	3 A
I ² t	0.1 A ² ·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	
• Inputs	244 byte
• Outputs	244 byte
Address space per module	
• Inputs	244 byte
• Outputs	244 byte
Hardware configuration	
number of modules per DP device interface, max.	12
Time stamp	
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	
• Output current of the interface, max.	70 mA
• Design of the connection	9-pin sub D socket

PROFIBUS DP device			
- GSD file - automatic baud rate search		SI05801E.GSG Yes	
Protocols			
Bus protocol/transmission protocol		PROFIBUS DP to EN 50170	
PROFIBUS DP			
Number of node addresses, max.		1 to 125 permitted	
Services			
— SYNC capability — FREEZE capability — Direct data exchange (slave-to-slave communication)		Yes Yes Yes; as publisher with all IO, as subscriber with F-IO only	
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			
- horizontal installation, min. - horizontal installation, max. - vertical installation, min. - vertical installation, max.		-25 °C 60 °C -25 °C 40 °C	
Altitude during operation relating to sea level			
Installation altitude above sea level, max.		3 000 m	
Configuration			
Configuration software			
STEP 7		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	
Classifications			
		Version	Classification
	eClass	16	27-24-26-08
	eClass	14	27-24-26-08
	eClass	12	27-24-26-08
	eClass	9.1	27-24-26-08
	eClass	9	27-24-26-08
	eClass	8	27-24-26-08
	eClass	7.1	27-24-26-08
	eClass	6	27-24-26-08
	ETIM	10	EC001604
	ETIM	9	EC001604
	ETIM	8	EC001604
	ETIM	7	EC001604
	IDEA	4	3564
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			

[Manufacturer Declaration](#)



[Miscellaneous](#)



General Product Approval

For use in hazardous locations

[China RoHS](#)

[Manufacturer Declaration](#)

[Miscellaneous](#)



[Type Examination Certificate](#)

For use in hazardous locations

Maritime application

[FM](#)



[CCC-Ex](#)



[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)

Environment



last modified:

9/11/2026 