

## Data sheet

## 6ES7153-2BA10-0XB0

\*\*\*spare part\*\*\* SIMATIC DP, connection ET 200M IM 153-2 High Feature for max. 12 S7-300 modules with redundancy capability, time stamping suitable for isochronous mode new features: up to 12 modules can be used Device 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 notes in manual+++

General information	
Product type designation	IM 153-2 DP HF
Firmware version	V6.0.0
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.	650 mA; with 24 V DC supply
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 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	
<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 device	
<ul style="list-style-type: none"> <li>GSD file</li> <li>automatic baud rate search</li> </ul>	SI05801E.GSG Yes

Protocols			
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170		
Protocols (Ethernet)			
• TCP/IP	No		
PROFIBUS DP			
• Number of node addresses, max.	1 to 125 permitted		
Services			
— SYNC capability	Yes		
— FREEZE capability	Yes		
— Direct data exchange (slave-to-slave communication)	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			
• min.	0 °C		
• max.	60 °C		
• horizontal installation, min.	0 °C		
• horizontal installation, max.	60 °C		
• vertical installation, min.	0 °C		
• vertical installation, max.	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	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](#)

[China RoHS](#)



General Product Approval

EMV

For use in hazardous locations



[EM](#)

For use in hazardous locations

Maritime application



[Miscellaneous](#)



IECEX



ATEX

[CCC-Ex](#)



ABS

Maritime application



LRS

[NK / Nippon Kaiji Kyokai](#)



RINA

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

Industrial Communication



Profibus

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