



SIMATIC ET 200SP, PROFIBUS bundle IM, IM 155-6DP HF, max. 32 I/O modules and 16 ET 200AL modules, Multi-hotswap, bundle consists of: Interface module (6ES7155-6BU01-0CN0), Server module (6ES7193-6PA00-0AA0), PROFIBUS connector (6ES7972-0BB70-0XA0)

General information	
Product type designation	IM 155-6 DP HF
HW functional status	From FS02
Firmware version	V4.2
• FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
• Module swapping during operation (hot swapping)	Yes; Multi-hot swapping
• Isochronous mode	No
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V15 SP1
• STEP 7 configurable/integrated from version	As of V5.5 SP4, only up to FW V3.1
• PROFIBUS from GSD version/GSD revision	One GSD file each, Revision 3 and 5 and higher
Configuration control	
via dataset	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
• Mains/voltage failure stored energy time	10 ms
Input current	
Current consumption, max.	335 mA
Inrush current, max.	1.6 A
I^2t	0.038 A ² ·s
Power loss	
Power loss, typ.	1.5 W
Address area	
Address space per module	
• Address space per module, max.	32 byte; For input and output data respectively
Address space per station	
• Address space per station, max.	244 byte
Hardware configuration	
Rack	
• Quantity of operable ET 200SP modules, max.	32
• Quantity of operable ET 200AL modules, max.	16
Interfaces	
Number of PROFIBUS interfaces	1

1. Interface			
Interface types			
• RS 485	Yes		
• Output current of the interface, max.	90 mA		
Protocols			
• PROFIBUS DP device	Yes		
Interface types			
RS 485			
• Transmission rate, max.	12 Mbit/s		
Protocols			
Supports protocol for PROFINET IO	No		
PROFIsafe	Yes		
PROFIBUS	Yes		
EtherNet/IP	No		
Modbus TCP	No		
Open IE communication			
• TCP/IP	No		
PROFIBUS DP			
Services			
— SYNC capability	Yes		
— FREEZE capability	Yes		
— DPV0	Yes		
— DPV1	Yes		
Interrupts/diagnostics/status information			
Status indicator	Yes		
Alarms	Yes		
Diagnostics function	Yes		
Diagnostics indication LED			
• RUN LED	Yes; green LED		
• ERROR LED	Yes; red LED		
• MAINT LED	Yes; Yellow LED		
• Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED		
• Connection display DP	Yes; green DP LED		
Potential separation			
between backplane bus and electronics	No		
between PROFIBUS DP and all other circuit components	Yes		
between supply and all other circuits	No		
Permissible potential difference			
between different circuits	Safety extra low voltage SELV		
Isolation			
Isolation tested with	707 V DC (type test)		
Ambient conditions			
Ambient temperature during operation			
• horizontal installation, min.	-25 °C; No condensation		
• horizontal installation, max.	60 °C		
• vertical installation, min.	-25 °C; No condensation		
• vertical installation, max.	50 °C		
Altitude during operation relating to sea level			
• Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual		
connection method			
ET-Connection			
• via BU/BA Send	Yes; + 16 ET 200AL modules		
Dimensions			
Width	50 mm		
Height	117 mm		
Depth	74 mm		
Weights			
Weight, approx.	150 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	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

[KC](#)



[FM](#)

[CCC-Ex](#)



For use in hazardous locations

Marine / Shipping



[Miscellaneous](#)



Marine / Shipping

Industrial Communication

[NK / Nippon Kaiji Kyokai](#)



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



last modified:

5/22/2024