



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) Product phase-out planned – see SIOS 109989704

General information	
Product type designation	IM 155-6 DP HF
HW functional status	From FS02
Firmware version	V4.2
<ul style="list-style-type: none"> <li>FW update possible</li> </ul>	Yes
Product function	
<ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>	Yes; I&M0 to I&M3
<ul style="list-style-type: none"> <li>Module swapping during operation (hot swapping)</li> </ul>	Yes; Multi-hot swapping
<ul style="list-style-type: none"> <li>Isochronous mode</li> </ul>	No
Engineering with	
<ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V15 SP1
<ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>	As of V5.5 SP4, only up to FW V3.1
<ul style="list-style-type: none"> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	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	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	10 ms
Input current	
Current consumption, max.	335 mA
Inrush current, max.	1.6 A
$I^2t$	0.038 A <sup>2</sup> ·s
Power loss	
Power loss, typ.	1.5 W
Address area	
Address space per module	
<ul style="list-style-type: none"> <li>Address space per module, max.</li> </ul>	32 byte; For input and output data respectively
Address space per station	
<ul style="list-style-type: none"> <li>Address space per station, max.</li> </ul>	244 byte
Hardware configuration	
Rack	
<ul style="list-style-type: none"> <li>Quantity of operable ET 200SP modules, max.</li> </ul>	32
<ul style="list-style-type: none"> <li>Quantity of operable ET 200AL modules, max.</li> </ul>	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

Maritime application



[Miscellaneous](#)



Maritime application

Industrial Communication

[NK / Nippon Kaiji Kyokai](#)



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



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