

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 with PROFIBUS connector and server module
HW functional status	From FS02
Firmware version	V4.2
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 as of version</li> </ul>	V15 SP1
<ul style="list-style-type: none"> <li>STEP 7 configurable/integrated as of version</li> </ul>	As of V5.5 SP4, only up to FW V3.1
<ul style="list-style-type: none"> <li>PROFIBUS as of 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

#### 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 <sup>2</sup> ·s

#### Power loss

Power loss, typ.	1.5 W
------------------	-------

#### Address area

##### Address space per module

- Address space per module, max. 32 byte; per input / output

##### Address space per station

- Address space per station, max. 244 byte; per input / output

#### Hardware configuration

##### Rack

- Modules per rack, max. 32; + 16 ET 200AL modules

#### Interfaces

Number of PROFIBUS interfaces	1
-------------------------------	---

#### 1. Interface

##### Interface types

- RS 485 Yes
- Output current of the interface, max. 90 mA

##### Protocols

- PROFIBUS DP slave Yes

#### Interface types

##### RS 485

- Transmission rate, max. 12 Mbit/s

#### Protocols

##### 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
<b>Diagnostics indication LED</b>	
• 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

<b>Potential separation</b>	
between backplane bus and electronics	No
between PROFIBUS DP and all other circuit components	Yes
between supply and all other circuits	No

<b>Permissible potential difference</b>	
between different circuits	Safety extra low voltage SELV

<b>Isolation</b>	
Isolation tested with	707 V DC (type test)

<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• horizontal installation, min.	-25 °C
• horizontal installation, max.	60 °C
• vertical installation, min.	-25 °C
• vertical installation, max.	50 °C
<b>Altitude during operation relating to sea level</b>	
• Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual

<b>Connection method</b>	
<b>ET-Connection</b>	
• via BU/BA Send	Yes; + 16 ET 200AL modules

<b>Dimensions</b>	
Width	50 mm
Height	117 mm
Depth	74 mm

<b>Weights</b>	
Weight, approx.	150 g
<b>last modified:</b>	04/17/2020