



SIMATIC ET 200SP, bundle PROFIBUS IM, IM 155-6DP HF, max. 32 I/O modules and 16 ET 200AL modules, multi hot swap, bundle consists of: interface module (6ES7155-6BU01-0CN0), server module (6ES7193-6PA00-0AA0), PROFIBUS plug (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                                            |
| • 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            | V5.5 SP4, only up to FW V3.1                    |
| • PROFIBUS from GSD version/GSD revision                 | si0181ab.gs* (V04.02.13, Rev.3, Rev.5)          |
| 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 <sup>2</sup> t                                         | 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; 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                                                                      |
| <b>1. Interface</b>                                  |                                                                        |
| Interface types                                      |                                                                        |
| • RS 485                                             | Yes; 1 integrated RS 485 socket                                        |
| • Output current of the interface, max.              | 90 mA                                                                  |
| Protocols                                            |                                                                        |
| • PROFIBUS DP device                                 | Yes                                                                    |
| <b>Interface types</b>                               |                                                                        |
| RS 485                                               |                                                                        |
| • Transmission rate, max.                            | 12 Mbit/s                                                              |
| <b>Protocols</b>                                     |                                                                        |
| Supports protocol for PROFINET IO                    | No                                                                     |
| PROFIsafe                                            | Yes                                                                    |
| PROFIBUS                                             | Yes                                                                    |
| EtherNet/IP                                          | No                                                                     |
| Modbus TCP                                           | No                                                                     |
| Open IE communication                                |                                                                        |
| • TCP/IP                                             | No                                                                     |
| <b>PROFIBUS DP</b>                                   |                                                                        |
| Services                                             |                                                                        |
| — SYNC capability                                    | Yes                                                                    |
| — FREEZE capability                                  | Yes                                                                    |
| — DPV0                                               | Yes                                                                    |
| — DPV1                                               | Yes                                                                    |
| <b>Interrupts/diagnostics/status information</b>     |                                                                        |
| 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                                                      |
| <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>                            |                                                                        |
| 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 |
| <b>Connection method</b>                             |                                                                        |
| ET-Connection                                        |                                                                        |
| • 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 |
|-----------------|-------|

| 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

[Miscellaneous](#)


[Manufacturer Declaration](#)
[China RoHS](#)


General Product Approval

For use in hazardous locations





[EM](#)
[CCC-Ex](#)

For use in hazardous locations

Maritime application


[Type Examination Certificate](#)

[Miscellaneous](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)


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

Maritime application

Industrial Communication


