




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 |
| <ul style="list-style-type: none"> FW update possible | Yes |
| Product function | |
| <ul style="list-style-type: none"> I&M data | Yes; I&M0 to I&M3 |
| <ul style="list-style-type: none"> Module swapping during operation (hot swapping) | Yes; Multi-hot swapping |
| <ul style="list-style-type: none"> Isochronous mode | No |
| Engineering with | |
| <ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version | V15 SP1 |
| <ul style="list-style-type: none"> STEP 7 configurable/integrated from version | As of V5.5 SP4, only up to FW V3.1 |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> Address space per module, max. | 32 byte; For input and output data respectively |
| Address space per station | |
| <ul style="list-style-type: none"> Address space per station, max. | 244 byte |
| Hardware configuration | |
| Rack | |
| <ul style="list-style-type: none"> Quantity of operable ET 200SP modules, max. | 32 |
| <ul style="list-style-type: none"> 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 slave | Yes |
| Interface types | |
| RS 485 | |
| • Transmission rate, max. | 12 Mbit/s |
| Protocols | |
| 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 |
| last modified: | 8/8/2023  |