



SIMATIC ET 200SP,  
PROFINET INTERFACE MODULE IM155-6PN STANDARD,  
MAX. 32 PERIPHERY MODULES,  
INCL. SERVERMODUL

| General information                                     |              |
|---------------------------------------------------------|--------------|
| Vendor identification (VendorID)                        | 002AH        |
| Device identifier (DeviceID)                            | 0313H        |
| Product function                                        |              |
| I&M data                                                | Yes          |
| Engineering with                                        |              |
| STEP 7 TIA Portal configurable/integrated as of version | V12 / V12    |
| STEP 7 configurable/integrated as of version            | V5.5 SP3 / - |
| PROFINET as of GSD version/GSD revision                 | V1.0 / V2.23 |
| Supply voltage                                          |              |
| Type of supply voltage                                  | 24 V DC      |
| 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 buffering time                    | 5 ms         |
| Input current                                           |              |
| Current consumption, max.                               | 450 mA       |

|                                        |                                                                           |
|----------------------------------------|---------------------------------------------------------------------------|
| <b>Power loss</b>                      |                                                                           |
| <b>Power loss, typ.</b>                | 1.9 W                                                                     |
| <b>Address area</b>                    |                                                                           |
| <b>Address space per module</b>        |                                                                           |
| <b>Address space per module, max.</b>  | 32 byte                                                                   |
| <b>Address space per station</b>       |                                                                           |
| <b>Address space per station, max.</b> | 386 byte                                                                  |
| <b>Hardware configuration</b>          |                                                                           |
| <b>Rack</b>                            |                                                                           |
| <b>Modules per rack, max.</b>          | 32                                                                        |
| <b>Interfaces</b>                      |                                                                           |
| <b>Number of PROFINET interfaces</b>   | 1                                                                         |
| <b>1. Interface</b>                    |                                                                           |
| <b>Interface types</b>                 |                                                                           |
| <b>Number of ports</b>                 | 2                                                                         |
| <b>integrated switch</b>               | Yes                                                                       |
| <b>Bus adapter (PROFINET)</b>          | Yes ; Applicable BusAdapters: BA 2x RJ45, BA 2x FC                        |
| <b>Protocols</b>                       |                                                                           |
| <b>PROFINET IO Device</b>              | Yes                                                                       |
| <b>Open IE communication</b>           | Yes                                                                       |
| <b>Media redundancy</b>                | Yes                                                                       |
| <b>Interface types</b>                 |                                                                           |
| <b>RJ 45 (Ethernet)</b>                |                                                                           |
| <b>10 Mbps</b>                         | Yes ; for Ethernet services                                               |
| <b>100 Mbps</b>                        | Yes ; PROFINET with 100 Mbit/s full duplex (100BASE-TX)                   |
| <b>Transmission procedure</b>          | PROFINET with 100 Mbit/s full duplex (100BASE-TX)                         |
| <b>Autonegotiation</b>                 | Yes                                                                       |
| <b>Autocrossing</b>                    | Yes                                                                       |
| <b>Protocols</b>                       |                                                                           |
| <b>PROFINET IO</b>                     |                                                                           |
| <b>PROFINET IO</b>                     | Yes                                                                       |
| <b>PROFINET IO Device</b>              |                                                                           |
| <b>Services</b>                        |                                                                           |
| <b>Open IE communication</b>           | Yes                                                                       |
| <b>IRT, supported</b>                  | Yes ; with send cycles of between 250 µs and 4 ms in increments of 125 µs |
| <b>PROFInergy</b>                      | Yes                                                                       |
| <b>Prioritized startup</b>             | Yes                                                                       |

|                                                          |                                                                                                                     |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Shared device</b>                                     | Yes                                                                                                                 |
| <b>Number of IO Controllers with shared device, max.</b> | 2                                                                                                                   |
| <b>Open IE communication</b>                             |                                                                                                                     |
| <b>TCP/IP</b>                                            | Yes                                                                                                                 |
| <b>SNMP</b>                                              | Yes                                                                                                                 |
| <b>LLDP</b>                                              | Yes                                                                                                                 |
| <b>Interrupts/diagnostics/status information</b>         |                                                                                                                     |
| <b>Status indicator</b>                                  | Yes                                                                                                                 |
| <b>Alarms</b>                                            |                                                                                                                     |
| <b>Alarms</b>                                            | Yes                                                                                                                 |
| <b>Diagnostic messages</b>                               |                                                                                                                     |
| <b>Diagnostic functions</b>                              | Yes                                                                                                                 |
| <b>Diagnostics indication LED</b>                        |                                                                                                                     |
| <b>RUN LED</b>                                           | Yes ; Green LED                                                                                                     |
| <b>ERROR LED</b>                                         | Yes ; Red LED                                                                                                       |
| <b>MAINT LED</b>                                         | Yes ; yellow LED                                                                                                    |
| <b>Monitoring the supply voltage (PWR-LED)</b>           | Yes ; Green LED                                                                                                     |
| <b>Connection display LINK TX/RX</b>                     | Yes ; 2x green LED                                                                                                  |
| <b>Galvanic isolation</b>                                |                                                                                                                     |
| <b>between PROFINET and all other circuits</b>           | Yes                                                                                                                 |
| <b>between supply and all other circuits</b>             | Yes                                                                                                                 |
| <b>Permissible potential difference</b>                  |                                                                                                                     |
| <b>between different circuits</b>                        | 75 V DC/60 V AC (base isolation)                                                                                    |
| <b>Isolation</b>                                         |                                                                                                                     |
| <b>Isolation tested with</b>                             | 707 V DC between supply voltage and electronics (type test); 1500 V AC between Ethernet and electronics (type test) |
| <b>Standards, approvals, certificates</b>                |                                                                                                                     |
| <b>Network loading class</b>                             | 3                                                                                                                   |
| <b>Security level</b>                                    | According to Security Level 1 Test Cases V1.1.1                                                                     |
| <b>Ambient conditions</b>                                |                                                                                                                     |
| <b>Operating temperature</b>                             |                                                                                                                     |
| <b>horizontal installation, min.</b>                     | 0 °C                                                                                                                |
| <b>horizontal installation, max.</b>                     | 60 °C                                                                                                               |
| <b>vertical installation, min.</b>                       | 0 °C                                                                                                                |
| <b>vertical installation, max.</b>                       | 50 °C                                                                                                               |
| <b>Dimensions</b>                                        |                                                                                                                     |
| <b>Width</b>                                             | 50 mm                                                                                                               |
| <b>Height</b>                                            | 117 mm                                                                                                              |

|                        |                             |
|------------------------|-----------------------------|
| <b>Depth</b>           | 74 mm                       |
| <b>Weights</b>         |                             |
| <b>Weight, approx.</b> | 147 g ; without bus adapter |
| Status                 | Jul 14, 2014                |