

SIMATIC ITP1000, 8 function keys, Ethernet 10/100/1000 Mbit/s, 1x RS232, 2x USB 3.0, 1x UAJ, 1x USB type-C, 1x SD card reader, Wifi 802.11 a/b/c/g, Bluetooth, Lithium-ion battery; 10" Multitouch (1920 x 1200); Camera, RFID and barcode reader; 256 GB SSD; Windows 10 Enterprise 2015 LTSB, 64-bit; MUI (en,de,fr,it,es); Core i5-6442EQ; 16 GB RAM; 110/230 V AC power supply unit, Power supply cable for USA; without software (included);

| General information                      |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Design of the programming device         | Tablet PC                                                                                           |
| Display                                  |                                                                                                     |
| Design of display                        | 10" multi-touch                                                                                     |
| Resolution (pixels)                      |                                                                                                     |
| • Horizontal image resolution            | 1 280 pixel; 1 920 pixels                                                                           |
| • Vertical image resolution              | 800 pixel; 1 200 pixels                                                                             |
| General features                         |                                                                                                     |
| • Luminance                              | 220 cd/m <sup>2</sup> ; 350 cd/m <sup>2</sup>                                                       |
| Backlighting                             |                                                                                                     |
| • Type of backlighting                   | LED                                                                                                 |
| Control elements                         |                                                                                                     |
| Keyboard                                 |                                                                                                     |
| • Design                                 | Touch                                                                                               |
| Touch operation                          |                                                                                                     |
| • Integrated touch pad                   | No                                                                                                  |
| Supply voltage                           |                                                                                                     |
| Design of the power supply               | External wide-range power supply; 3-pole                                                            |
| permissible range, lower limit (AC)      | 100 V; ±10 %, sinusoidal                                                                            |
| permissible range, upper limit (AC)      | 240 V; ±10 %, sinusoidal                                                                            |
| Line frequency                           |                                                                                                     |
| • permissible range, lower limit         | 47 Hz                                                                                               |
| • permissible range, upper limit         | 63 Hz                                                                                               |
| Processor                                |                                                                                                     |
| Processor type                           | Celeron G3902 (2C/2T, 1.6 GHz, 2 MB cache); Intel Core i5-6442EQ (6 MB cache, up to 2.70 GHz, iAMT) |
| Hyper-threading                          | No                                                                                                  |
| Turbo Boost Technology 2.0               | Yes                                                                                                 |
| Graphic                                  |                                                                                                     |
| Graphics controller                      | Intel® HD graphics 530                                                                              |
| Drives                                   |                                                                                                     |
| SSD                                      | Yes                                                                                                 |
| • Memory capacity                        | 256 Gbyte; Up to 512 GB SSD                                                                         |
| TPM Security Chip                        | Yes                                                                                                 |
| Storage                                  |                                                                                                     |
| Type of memory                           | DDR4-SDRAM SO-DIMM                                                                                  |
| Work memory                              |                                                                                                     |
| • integrated                             | 4 Gbyte; 8 GB or 16 GB                                                                              |
| Accumulator                              |                                                                                                     |
| Replaceable                              | Yes; Lithium-ion battery                                                                            |
| Capacity                                 | 5 900 mA·h                                                                                          |
| Battery runtime, min.                    | 6 h; According to MobileMark 2014                                                                   |
| Interfaces                               |                                                                                                     |
| Number of industrial Ethernet interfaces | 1                                                                                                   |
| Number of RS 232 interfaces              | 1                                                                                                   |
| Number of USB interfaces                 | 3; USB 3.0                                                                                          |

|                                                                                       |                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • Type A                                                                              | 2                                                                                                                                                                                                |
| • Type C                                                                              | 1                                                                                                                                                                                                |
| Bluetooth radio standard                                                              | Yes; V4.0                                                                                                                                                                                        |
| Multimedia card/SD card slot                                                          | 2 in 1 (SDHC UHS-II, MMC)                                                                                                                                                                        |
| Universal Audio Jack                                                                  | Yes; Audio socket for 3.5 mm jack                                                                                                                                                                |
| <b>Video interfaces</b>                                                               |                                                                                                                                                                                                  |
| • DisplayPort                                                                         | Yes; DP 1.2 (Mini DisplayPort)                                                                                                                                                                   |
| <b>Industrial Ethernet</b>                                                            |                                                                                                                                                                                                  |
| • Industrial Ethernet interface                                                       | 1x Ethernet (RJ45)                                                                                                                                                                               |
| — 100 Mbps                                                                            | Yes                                                                                                                                                                                              |
| — 1000 Mbps                                                                           | Yes                                                                                                                                                                                              |
| • IAMT (Intel Active Management Technology)                                           | Yes                                                                                                                                                                                              |
| <b>WLAN</b>                                                                           |                                                                                                                                                                                                  |
| • Type                                                                                | IEEE 802.11 a/b/g/n and ac                                                                                                                                                                       |
| <b>Wireless transmission</b>                                                          |                                                                                                                                                                                                  |
| • Protocol for wireless transmission                                                  | Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B                                                                                                                                              |
| • Operating frequency (rated value)                                                   | 13.56 MHz                                                                                                                                                                                        |
| • Range, max.                                                                         | 30 mm; Range depends on transponder                                                                                                                                                              |
| <b>Interrupts/diagnostics/status information</b>                                      |                                                                                                                                                                                                  |
| LED status display                                                                    | Battery charge level, device status, access to drive, WLAN active, SD card, application LED                                                                                                      |
| <b>EMC</b>                                                                            |                                                                                                                                                                                                  |
| <b>Interference immunity against discharge of static electricity</b>                  |                                                                                                                                                                                                  |
| • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 | Yes; ±4 kV contact discharge (to IEC 801-2/IEC 1000-4-2; ESD), ±8 kV air discharge (to IEC 801-2/IEC 1000-4-2; ESD)                                                                              |
| <b>Interference immunity to cable-borne interference</b>                              |                                                                                                                                                                                                  |
| • Interference immunity on supply cables                                              | ±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)                          |
| • Interference immunity on signal cables                                              | ±1 kV (according to IEC 61000-4-4, burst, length < 30 m); ±2 kV (according to IEC 61000-4-4, burst, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m) |
| <b>Degree and class of protection</b>                                                 |                                                                                                                                                                                                  |
| IP degree of protection                                                               | IP40                                                                                                                                                                                             |
| <b>Standards, approvals, certificates</b>                                             |                                                                                                                                                                                                  |
| CE mark                                                                               | Yes                                                                                                                                                                                              |
| UL approval                                                                           | Yes                                                                                                                                                                                              |
| DIN/ISO 9001                                                                          | Yes                                                                                                                                                                                              |
| <b>Military use</b>                                                                   |                                                                                                                                                                                                  |
| • Conforms to MIL-STD-810G                                                            | Yes                                                                                                                                                                                              |
| <b>Ambient conditions</b>                                                             |                                                                                                                                                                                                  |
| <b>Ambient temperature during operation</b>                                           |                                                                                                                                                                                                  |
| • min.                                                                                | 5 °C; Max. 10 °C/h (no condensation)                                                                                                                                                             |
| • max.                                                                                | 45 °C; Max. 10 °C/h (no condensation)                                                                                                                                                            |
| <b>Ambient temperature during storage/transportation</b>                              |                                                                                                                                                                                                  |
| • min.                                                                                | -20 °C; Max. 20 °C/h (no condensation)                                                                                                                                                           |
| • max.                                                                                | 60 °C; Max. 20 °C/h (no condensation)                                                                                                                                                            |
| <b>Relative humidity</b>                                                              |                                                                                                                                                                                                  |
| • Operation, min.                                                                     | 5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14                                                                                            |
| • Operation, max.                                                                     | 85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14                                                                                           |
| <b>Vibrations</b>                                                                     |                                                                                                                                                                                                  |
| • Operation, tested according to IEC 60068-2-6                                        | Yes                                                                                                                                                                                              |
| <b>Shock testing</b>                                                                  |                                                                                                                                                                                                  |
| • tested according to IEC 60068-2-27                                                  | Yes                                                                                                                                                                                              |
| <b>Operating systems</b>                                                              |                                                                                                                                                                                                  |
| Local language of operating system                                                    | Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)                                                                                            |
| <b>pre-installed operating system</b>                                                 |                                                                                                                                                                                                  |
| • Windows 7                                                                           | Yes; Ultimate 64 bit, SP1                                                                                                                                                                        |

- Windows 10

Yes; Windows 10 Enterprise 2016 LTSC, 64 bit, MUI

## Software

| Preinstalled                       |    |
|------------------------------------|----|
| • STEP 7 Professional 2010         | No |
| • STEP 7 Professional (TIA Portal) | No |
| • STEP 7                           | No |
| • WinCC flexible Advanced 2008     | No |
| • WinCC Advanced (TIA Portal)      | No |
| • STEP 5                           | No |

## Mechanics/material

|                            |       |
|----------------------------|-------|
| Material of housing        | metal |
| • Magnesium alloy          | Yes   |
| Socket for Kensington lock | Yes   |
| rubber corner guards       | Yes   |

## Dimensions

|        |        |
|--------|--------|
| Width  | 330 mm |
| Height | 32 mm  |
| Depth  | 214 mm |

## Weights

|                 |                                    |
|-----------------|------------------------------------|
| Weight, approx. | 1.6 kg; incl. rechargeable battery |
|-----------------|------------------------------------|

## Scope of supply

|                |                         |
|----------------|-------------------------|
| Accumulator    | Yes                     |
| Power supply   | Yes                     |
| Recovery media | Yes; Restore & Recovery |

## Other

|              |                                                        |
|--------------|--------------------------------------------------------|
| free hotline | Yes                                                    |
| Note:        | Made in Germany: development and production in Germany |

## Classifications

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 14      | 19-01-02-01    |
| eClass | 12      | 19-01-02-01    |
| eClass | 9.1     | 19-01-02-01    |
| eClass | 9       | 19-01-02-01    |
| eClass | 8       | 19-01-02-01    |
| eClass | 7.1     | 19-01-02-01    |
| eClass | 6       | 19-01-02-01    |
| ETIM   | 10      | EC001414       |
| ETIM   | 9       | EC001414       |
| ETIM   | 8       | EC001414       |
| ETIM   | 7       | EC001414       |

## Approvals / Certificates

### General Product Approval



[Miscellaneous](#)



[China RoHS](#)

## Dangerous goods

[Dangerous goods information](#) [Test Summary Report UN 38.3](#)

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