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## Data sheet 6AV7880-0HA11-0AA2

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 (1280 x 800); Camera, RFID and barcode reader; 256 GB SSD; Windows 7 Ultimate 64 bit SP1, MUI (de, en, fr, es, it); Celeron G3902E; 4 GB RAM; 110/230 V AC power supply unit, Power supply cable for Europe; without software (included);

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|---|---|
| **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/m²; 350 cd/m² |
| 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 |


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|---|---|
| ● Type A | 2 |
| ● type C | 1 |
| Bluetooth radio standard | Yes; V4.0 |
| Universal Audio Jack | Yes; Audio socket for 3.5 mm jack |
| Video interfaces | |
| ● DisplayPort | Yes; DP 1.2 (Mini DisplayPort) |
| Industrial Ethernet | |
| ● Industrial Ethernet interface | |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| ● IAMT (Intel Active Management Technology) | Yes |
| WLAN | |
| ● Type | IEEE 802.11 a/b/g/n and ac |
| Wireless transmission | |
| ● 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 |
| **Interrupts/diagnostics/status information** | |
| LED status display | Battery charge level, device status, access to drive, WLAN active, SD card, application LED |
| **EMC** | |
| Interference immunity against discharge of static electricity | |
| ● 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) |
| **Degree and class of protection** | |
| IP degree of protection | IP40 |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| UL approval | Yes |
| Military use | |
| ● Conforms to MIL-STD-810G | Yes |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 5 °C; Max. 10 °C/h (no condensation) |
| ● max. | 45 °C; Max. 10 °C/h (no condensation) |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C; Max. 20 °C/h (no condensation) |
| ● max. | 60 °C; Max. 20 °C/h (no condensation) |
| Relative humidity | |
| ● 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 |
| Vibrations | |
| ● Operation, tested according to IEC 60068-2-6 | Yes |
| Shock testing | |
| ● tested according to IEC 60068-2-27 | Yes |
| **Operating systems** | |
| Local language of operating system | Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) |
| pre-installed operating system | |
| ● Windows 7 | Yes; Ultimate 64 bit, SP1 |
| ● Windows 10 | Yes; Windows 10 Enterprise 2016 LTSB, 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 |


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|---|---|
| ● 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 unit | Yes |
| Recovery media | Yes; Restore & Recovery |
| **Other** | |
| Note: | Made in Germany: development and production in Germany |
| **Approvals / Certificates** | |

**General Product Approval**

| | | | | | |
|---|---|---|---|---|---|
| | Miscellaneous | | | | Manufacturer Declaration |

| General Product Approval | Dangerous goods | | | |
|---|---|---|---|---|
| China RoHS | Dangerous goods information | Test Summary Report UN 38.3 | Dangerous goods information | Test Summary Report UN 38.3 |

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