

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 on the rear side, 5 megapixel; 512 GB SSD; Windows 7 Ultimate 64 bit SP1, MUI (de, en, fr, es, it); 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
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Display

Design of display	10" multi-touch
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Resolution (pixels)

- | | |
|--|--|
| <ul style="list-style-type: none"> Horizontal image resolution Vertical image resolution | 1 280 Pixel; 1 920 pixels
800 Pixel |
|--|--|

General features

- | | |
|---|-----------------------|
| <ul style="list-style-type: none"> Luminance | 220 cd/m ² |
|---|-----------------------|

Backlighting

- | | |
|--|-----|
| <ul style="list-style-type: none"> Type of backlighting | LED |
|--|-----|

Control elements

Keyboard fonts

- | | |
|--|-------|
| <ul style="list-style-type: none"> Design | Touch |
|--|-------|

Touch operation

- | | |
|--|----|
| <ul style="list-style-type: none"> Integrated touch pad | No |
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Supply voltage

Design of the power supply	External wide-range power supply; 3-pole
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permissible range, lower limit (AC)	100 V; ±10 %, sinusoidal
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permissible range, upper limit (AC)	240 V; ±10 %, sinusoidal
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Line frequency

- | | |
|--|----------------|
| <ul style="list-style-type: none"> permissible range, lower limit permissible range, upper limit | 47 Hz
63 Hz |
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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)
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Hyper-threading	No
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Turbo Boost Technology 2.0	Yes
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Graphic

Graphics controller	Intel® HD graphics 530
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Drives	
SSD	Yes
• Memory capacity	256 Gbyte
TPM Security Chip	Yes
Memory	
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
Video interfaces	
• DisplayPort	Yes; DP 1.2 (Mini DisplayPort)
Industrial Ethernet	
• Industrial Ethernet interface	1x Ethernet (RJ45)
— 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	
• Operating frequency (rated value)	13.56 MHz
• Range, max.	30 mm
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)
Interference immunity to cable-borne interference	
• 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)

Degree and class of protection

Degree of protection acc. to EN 60529 IP40

Standards, approvals, certificates

CE mark Yes

UL approval Yes

Conforms to MIL-STD-810G Yes

DIN/ISO 9001 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

pre-installed operating system

- 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
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