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Data sheet 6AV7880-0BA22-1DA2

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; 256 GB SSD; Windows 10 Enterprise 2015 LTSB, 64-bit; MUI (en,de,fr,it,es); Core I5-6442EQ; 8 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/m²; 350 cd/m²
Backlighting	
● Type of backlighting	LED
Control elements	
Keyboard fonts	
● 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
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

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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	
● 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)
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	
IP degree of protection	IP40
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
DIN/ISO 9001	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

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● 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	Test Certificates	other		Environment
EAC	Miscellaneous	Miscellaneous	Confirmation	Environmental Confirmations

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