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Data sheet 6AV7880-2BA21-1AA2

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 on the rear side, 5 megapixel; 256 GB SSD; Windows 10 Enterprise 2015 LTSB, 64-bit; MUI (en,de,fr,it,es); Celeron G3902E; 8 GB RAM; 110/230 V AC power supply unit, Power supply cable for Europe; 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	
● 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

last modified: 4/8/2026

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