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Data sheet 6AV7880-4DB01-1AA1



SIMATIC IPC MD-34A Automation 10.1" multi-touch 256 GB SSD, 16 GB RAM Intel Core i5-11, Windows 10 21H2 IoT Enterprise LTSC resolution: 1280x800 pixels brightness: 350 cd/m2 Wi-Fi, Bluetooth HF RFID reader with 3,500 mAh battery; you must select your power supply cord: EU: 6ES7900-5AA00-0XA0 GB: 6ES7900-5BA00-0XA0 Swiss: 6ES7900-5CA00-0XA0 USA: 6ES7900-5DA00-0XA0 Italy: 6ES7900-5EA00-0XA0 China: 6ES7900-5FA00-0XA0 India: 6ES7900-5GA00-0XA0

General information	
Design of the programming device	Mobile computer
Display	
Design of display	10.1" TFT LCD with Multi-Touch
Screen diagonal	10.1 in; TFT display, LED backlighting
Resolution (pixels)	
● Horizontal image resolution	1 280 pixel
● Vertical image resolution	800 pixel
General features	
● Non-reflecting	Yes; Anti-Glare, etching on cover glass
● Luminance	350 cd/m²
Backlighting	
● Type of backlighting	LED
Control elements	
Keyboard	
● Design	Touch
Supply voltage	
Design of the power supply	External wide-range power supply; 3-pole
Rated value (DC)	19 V
permissible range, lower limit (AC)	100 V
permissible range, upper limit (AC)	240 V
Processor	
Processor type	Intel Core i5-1135G7 2.4 GHz
Chipset	Intel HM570 PCH
Hyper-threading	No
Turbo Boost Technology 2.0	Yes
Graphic	
Graphics controller	Intel® Iris® Xe Integrated Graphics Controller
Drives	
CD-RW	No
DVD-ROM	No
DVD-RW	No
Hard disk	No
● Memory capacity	16 Gbyte
SSD	Yes
● Memory capacity	256 Gbyte
TPM Security Chip	Yes; 2.0 (version for China without TPM)
Storage	
Type of memory	DDR4 SDRAM

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Work memory	
● integrated	16 Gbyte
● Number of slots	1
Accumulator	
Replaceable	Yes; Lithium-ion battery
Capacity	3 500 mA·h
Battery runtime, min.	6 h
Hardware configuration	
Slots	
● Number of ExpressCard slots	0
Interfaces	
Number of industrial Ethernet interfaces	1
Number of interfaces PROFIBUS DP	0
Number of RS 232 interfaces	0
Number of USB interfaces	2
● Type A	1; USB 3.0
● type C	1; USB 3.0
MPI	No
Bluetooth radio standard	Yes; V5.3
Universal Audio Jack	Yes; combo audio socket for 3.5 mm jack
Video interfaces	
● analog video signal (VGA)	No
● DVI-I	No
● DisplayPort	No
● Micro HDMI	Yes
Industrial Ethernet	
● Industrial Ethernet interface	
— 100 Mbps	Yes
— 1000 Mbps	Yes
● Wake on LAN	No
● IAMT (Intel Active Management Technology)	No
WLAN	
● Type	802.11 a/b/g/n/ac/ax
Interrupts/diagnostics/status information	
LED status display	2x LED Indicator for Power, Battery
EMC	
Interference immunity against discharge of static electricity	
● Interference immunity against discharge of static electricity acc. to IEC 61000-4-2	Yes; ±6 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD
— Test voltage at air discharge	8 kV
— Test voltage at contact discharge	6 kV
Interference immunity to cable-borne interference	
● Interference immunity on supply lines acc. to IEC 61000-4-4	Yes; 2 kV acc. to IEC 61000-4-4, burst
● Interference immunity on signal cables acc. to IEC 61000-4-4	Yes; 1 kV acc. to IEC 61000-4-4, burst, length < 3 m; 2 kV acc. to IEC 61000-4-4, burst, length > 3 m
Emission of radio interference acc. to EN 55 022	
● Interference emission acc. to EN 55022, class B	Yes; CISPR 32 Class B
Degree and class of protection	
IP degree of protection	IP65
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	No
FCC	Yes
Military use	
● Conforms to MIL-STD-810G	No
Ambient conditions	
Ambient temperature during operation	

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● min.	0 °C; AC mode
● max.	0 °C; AC mode
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °C
Relative humidity	
● Operation, min.	50 %; non condensing
● Operation, max.	95 %; non condensing
Vibrations	
● Operation, tested according to IEC 60068-2-6	Yes; Operating: Frequency / Deflection 10 - 58 Hz / 0.0375 mm 58 - 200 Hz / 4.9 m/s², 10 cycles Storage/Transportation: Cycles per Axle 10 / Octaves/min 1 Frequency / Deflection 5 - 8.4 Hz / 3.5 mm 8.4 - 500Hz / 9.8 m/s²
Shock testing	
● tested according to IEC 60068-2-27	Yes; operating: 15G, 11ms half sine; The interval time is set to 2 or 3 seconds generally, 3 Shock times per direction Storage/Transportation: 25G, 6ms half sine, The interval time is set to 2 or 3 seconds generally
● tested according to IEC 60068-2-29	No
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 10	Yes; Windows 10 IoT Enterprise 2021 LTSC
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	plastic
Handle	No
Socket for Kensington lock	Yes
rubber corner guards	Yes
Dimensions	
Width	272 mm
Height	25 mm
Depth	192 mm
Weights	
Weight, approx.	1.1 kg
Scope of supply	
Accumulator	Yes
Power supply unit	Yes
backpack	No
SIMATIC Software	No
Recovery media	No; Restore & Recovery
Classifications	

	Version	Classification
eClass	16	19-01-02-01
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

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ETIM	9	EC001414
ETIM	8	EC001414
ETIM	7	EC001414

Approvals / Certificates

General Product Approval

Miscellaneous

General Product Approval

Miscellaneous | BIS CRS | China RoHS

General Product Approval | Radio Equipment Type Approval Certificate

Industry Canada (IC) | Miscellaneous | FCC

Radio Equipment Type Approval Certificate | Dangerous goods

Miscellaneous | Miscellaneous | Miscellaneous | Dangerous goods information | Dangerous goods information | Test Summary Report UN 38.3

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