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Data sheet 6AV7880-4BA01-0AA1



SIMATIC IPC MD-34A Entry Plus 10.1" multi-touch 256 GB SSD, 8 GB RAM Intel Core i5-11, Windows 10 21H2 IoT Enterprise LTSC resolution: 1280x800 pixels brightness: 350 cd/m2 Wi-Fi, Bluetooth 1D/2D bar code reader built-in global 4G/LTE module 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 fonts	
● 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	8 Gbyte
SSD	Yes
● Memory capacity	256 Gbyte
TPM Security Chip	Yes; 2.0 (version for China without TPM)
Memory	
Type of memory	DDR4 SO-DIMM
Work memory	

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● integrated	8 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
Multimedia card/SD card slot	1 x Micro SDXC slot
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	1x Ethernet (RJ45)
— 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 and global 4G LTE module
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 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 supply lines acc. to IEC 61000-4-4	Yes; 2 kV acc. to IEC 61000-4-4, burst
● 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)
● 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	Yes
FCC	Yes
DIN/ISO 9001	No

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Military use	
● Conforms to MIL-STD-810G	Yes; MIL-STD-810H Method 514.8 Procedure I; MIL-STD-810H Method 516.8 Procedure I
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C; AC mode
● max.	45 °C; AC mode
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °C
Relative humidity	
● Operation, min.	50 %
● Operation, max.	95 %
Vibrations	
● Operation, tested according to IEC 60068-2-6	Yes; frequency / deflection 10 - 58 Hz / 0,0375 mm / 58 - 200 Hz / 4,9 m/s², 10 cycles
Shock testing	
● tested according to IEC 60068-2-27	Yes; 15 G, 11 ms half sine; the interval time is set to 2 or 3 seconds generally, 3 shock times per direction
● 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; 4 corners covered by rubber bumpers as protectors
Dimensions	
Width	272 mm
Height	25 mm
Depth	192 mm
Weights	
Weight, approx.	1.1 kg
Scope of supply	
Accumulator	Yes
Power supply	Yes
Backpack	No
SIMATIC Software	No
Recovery media	No; Restore & Recovery
Other	
free hotline	Yes

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

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eClass	6	19-01-02-01
ETIM	9	EC001414
ETIM	8	EC001414
ETIM	7	EC001414

Approvals / Certificates

General Product Approval











Miscellaneous

General Product Approval					Radio Equipment Type Approval Certificate
Miscellaneous	KC	RCM	BIS CRS	KC	Industry Canada (IC)

Radio Equipment Type Approval Certificate		Dangerous goods
Miscellaneous	FCC	Dangerous goods information

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