Industrial Computing
Mobile devices

SIMATIC IPC MD-34A

Overview

SIMATIC Industrial Tablet PC SIMATIC IPC MD-34A opens up new possibilities and concepts as a component of Industry 4.0. With its numerous functionalities and high performance, it meets the diverse requirements of users from different industries and fields of activity.

Ordering data

	Article No.		Article No.
SIMATIC Tablet PC Entry 10.1" multi-touch, 256 GB SSD, 8 GB RAM, Intel Core i5-11, Windows 10 IOT Enterprise LTSC Resolution: 1280 x 800 pixels Brightness: 350 cd/m^2, Wi-Fi, Bluetooth, with 3500 mAh battery; Suitable power supply cable must be selected	6AV7880-4AA01-0AA1	**SIMATIC Tablet PC Outdoor** 10.1" multi-touch, 256 GB SSD, 8 GB RAM, Intel Core i5-11, Windows 10 IOT Enterprise LTSC Resolution: 1920 x 1200 pixels, Brightness: 800 cd/m^2, Wi-Fi, Bluetooth, built-in global 4G/LTE module, GPS & GLONASS integrated, with 3500 mAh battery; Suitable power supply cable must be selected	6AV7880-4EB01-1AA1
SIMATIC Tablet PC Entry Plus 10.1" multi-touch, 256 GB SSD, 8 GB RAM Intel Core i5-11, Windows 10 IOT Enterprise LTSC Resolution: 1280 x 800 pixels Brightness: 350 cd/m^2, Wi-Fi, Bluetooth, 1D/2D bar code reader, built-in global 4G/LTE module, with 3500 mAh battery; Suitable power supply cable must be selected	6AV7880-4BA01-0AA1	*Accessories*	
		SIMATIC IPC MD-34A Desk Docking Accessory, for all configurations of the MD-34A, 1 x LAN 10/100 Mbps, 2 x USB 2.0 1 x RS232, 1 x VGA, input 19 V DC, 2 x USB 2.0 on the side; Suitable power supply cable to be selected	6AV7676-1AC00-0AA0
SIMATIC Tablet PC High End 10.1" multi-touch, 512 GB SSD, 32 GB RAM, Intel Core i5-11, Windows 10 IOT Enterprise LTSC Resolution: 1920 x 1200 pixels, Brightness: 800 cd/m^2, Wi-Fi, Bluetooth, 1D/2D bar code reader, built-in HF RFID read module, built-in global 4G/LTE module, GPS & GLONASS integrated, with 3500 mAh battery; Suitable power supply cable must be selected	6AV7880-4CB01-1AA1	**SIMATIC IPC MD-34A Vehicle Dock** Accessory, for all configurations of the MD-34A, 1 x LAN 10/100 Mbps, 2 x USB 2.0 1 x RS232, 1 x VGA, input 9-36 V DC, 2 x USB 2.0 on the side; Suitable power supply cable to be selected	6AV7676-1AC10-0AA0
		SIMATIC IPC MD-34A battery charging unit With 2 charging stations; Suitable power supply cable must be selected	6AV7676-3AC00-0AA0
SIMATIC Tablet PC Automation 10.1" multi-touch, 256 GB SSD, 16 GB RAM Intel Core i5-11, Windows 10 IOT Enterprise LTSC Resolution: 1280 x 800 pixels Brightness: 350 cd/m^2, Wi-Fi, Bluetooth, built-in HF RFID read module, with 3500 mAh battery; Suitable power supply cable must be selected	6AV7880-4DB01-1AA1	**SIMATIC MD-34A rechargeable battery kit** Lithium-ion, approx. 3500 mAh, including mounting accessories, 6 months warranty, spare part	6AV7676-3AC10-0AA0
		SIMATIC IPC MD-34A shoulder strap Accessory, for all configurations of the MD-34A	6AV7676-4AC00-0AA0
		SIMATIC IPC MD-34A hand strap Accessory, for all configurations of the MD-34A	6AV7676-4AC10-0AA0

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■ **Technical specifications**

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	SIMATIC IPC MD-34A Entry Plus	SIMATIC IPC MD-34A Automation	SIMATIC IPC MD-34A Outdoor	SIMATIC IPC MD-34A Entry w/Type C PD	SIMATIC IPC MD-34A Entry Plus w/PD	SIMATIC IPC MD-34A High End w/PD	SIMATIC IPC MD-34A Automation w/PD	SIMATIC IPC MD-34A Outdoor w/PD
General information								
Design of the programming device	Mobile computer	Mobile computer	Mobile computer	Mobile computer	Mobile computer	Mobile computer	Mobile computer	Mobile computer
Display								
Design of display	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch	10.1" TFT LCD with Multi-Touch
Screen diagonal	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting	10.1 in; TFT display, LED backlighting
Resolution (pixels)								
• Horizontal image resolution	1 280 pixel	1 280 pixel	1 920 pixel	1 280 pixel	1 280 pixel	1 920 pixel	1 280 pixel	1 920 pixel
• Vertical image resolution	800 pixel	800 pixel	1 200 pixel	800 pixel	800 pixel	1 200 pixel	800 pixel	1 200 pixel
General features								
• Non-reflecting	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass	Yes; Anti-Glare, etching on cover glass
• Luminance	350 cd/m²	350 cd/m²	800 cd/m²	350 cd/m²	350 cd/m²	800 cd/m²	350 cd/m²	800 cd/m²
Backlighting								
• Type of backlighting	LED	LED	LED	LED	LED	LED	LED	LED
Control elements								
Keyboard fonts								
• Design	Touch	Touch	Touch	Touch	Touch	Touch	Touch	Touch
Touch operation								
• Integrated touch pad				No	No	No	No	No
Supply voltage								
Design of the power supply	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole	External wide-range power supply; 3-pole
Rated value (DC)	19 V	19 V	19 V	19 V	19 V	19 V	19 V	19 V
Processor								
Processor type	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz	Intel Core i5-1135G7 2.4 GHz
Chipset	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH	Intel HM570 PCH
Hyper-threading	No	No	No	No	No	No	No	No
Turbo Boost Technology 2.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Graphic								
Graphics controller	Intel® Iris® Xᵉ Integrated Graphics Controller	Intel® Iris® Xᵉ Integrated Graphics Controller	Intel® Iris® Xᵉ Integrated Graphics Controller	Intel® Iris® Xᵉ Integrated Graphics Controller	Intel® Iris® Xᵉ Integrated Graphics Controller	Intel® Iris® Xᵉ Integrated Graphics Controller	Intel® Iris® Xᵉ Integrated Graphics Controller	Intel® Iris® Xᵉ Integrated Graphics Controller
Drives								
CD-RW	No	No	No	No	No	No	No	No
DVD-ROM	No	No	No	No	No	No	No	No
DVD-RW	No	No	No	No	No	No	No	No
Hard disk	No	No	No	No	No	No	No	No
• Memory capacity	8 Gbyte	16 Gbyte	16 Gbyte	8 Gbyte	8 Gbyte	32 Gbyte	16 Gbyte	16 Gbyte
SSD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Memory capacity	256 Gbyte	256 Gbyte	512 Gbyte	256 Gbyte	256 Gbyte	512 Gbyte	256 Gbyte	512 Gbyte
TPM Security Chip	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)	Yes; 2.0 (version for China without TPM)

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	SIMATIC IPC MD-34A Entry Plus	SIMATIC IPC MD-34A Automation	SIMATIC IPC MD-34A Outdoor	SIMATIC IPC MD-34A Entry w/Type C PD	SIMATIC IPC MD-34A Entry Plus w/PD	SIMATIC IPC MD-34A High End w/PD	SIMATIC IPC MD-34A Automation w/PD	SIMATIC IPC MD-34A Outdoor w/PD
Memory								
Type of memory	DDR4 SO-DIMM	DDR4 SDRAM	DDR4 SDRAM	DDR4 SO-DIMM	DDR4 SO-DIMM	DDR4 SO-DIMM	DDR4 SO-DIMM	DDR4 SO-DIMM
Work memory								
• integrated	8 Gbyte	16 Gbyte	16 Gbyte	8 Gbyte	8 Gbyte	32 Gbyte	16 Gbyte	16 Gbyte
• Number of slots	1	1	1	1	1	1	1	1
Accumulator								
Replaceable	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery	Yes; Lithium-ion battery
Capacity	3 500 mA·h	3 500 mA·h	3 500 mA·h	3 500 mA·h	3 500 mA·h	3 500 mA·h	3 500 mA·h	3 500 mA·h
Battery runtime, min.	6 h	6 h	6 h	6 h	6 h	6 h	6 h	6 h
Hardware configuration								
Slots								
• Number of ExpressCard slots	0	0	0	0	0	0	0	0
Interfaces								
Number of industrial Ethernet interfaces	1	1	1	1	1	1	1	1
Number of interfaces PROFIBUS DP	0	0	0	0	0	0	0	0
Number of RS 232 interfaces	0	0	0	0	0	0	0	0
Number of USB interfaces	2	2	2	2	2	2	2	2
• Type A	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0
• Type C	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0	1; USB 3.0
MPI	No	No	No	No	No	No	No	No
Bluetooth radio standard	Yes; V5.3	Yes; V5.3	Yes; V5.3	Yes; V5.3	Yes; V5.3	Yes; V5.3	Yes; V5.3	Yes; V5.3
Multimedia card/SD card slot	1 x Micro SDXC slot	1 x Micro SDXC slot	1 x Micro SDXC slot	1 x Micro SDXC slot	1 x Micro SDXC slot	1 x Micro SDXC slot	1 x Micro SDXC slot	1 x Micro SDXC slot
Universal Audio Jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack	Yes; combo audio socket for 3.5 mm jack
Video interfaces								
• analog video signal (VGA)	No	No	No	No	No	No	No	No
• DVI-I	No	No	No	No	No	No	No	No
• DisplayPort	No	No	No	No	No	No	No	No
• Micro HDMI	Yes	Yes	Yes; combo audio socket for 3.5 mm jack	Yes	Yes	Yes	Yes	Yes
Industrial Ethernet								
• Industrial Ethernet interface	1x Ethernet (RJ45)	1x Ethernet (RJ45)	1x Ethernet (RJ45)	1x Ethernet (RJ45)	1x Ethernet (RJ45)	1x Ethernet (RJ45)	1x Ethernet (RJ45)	1x Ethernet (RJ45)
- 100 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
- 1000 Mbps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Wake on LAN	No	No	No	No	No	No	No	No
• IAMT (Intel Active Management Technology)	No	No	No	No	No	No	No	No
WLAN								
• Type	802.11 a/b/g/n/ac/ax and global 4G LTE module	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax and global 4G LTE module	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax and global 4G LTE module	802.11 a/b/g/n/ac/ax and global 4G LTE module	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax and global 4G LTE module
Wireless transmission								
• Protocol for wireless transmission			Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B			Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B		Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B
• Operating frequency (rated value)			13.56 MHz			13.56 MHz		13.56 MHz
• Range, max.			30 mm			30 mm		30 mm
• Multitag capability			Yes			Yes	No	Yes

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Interrupts/diagnostics/ status information								
LED status display	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	2x LED Indicator for Power, Battery	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							
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	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	Yes; 2 kV acc. to IEC 61000-4-4, burst	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	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection								
IP degree of protection	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Standards, approvals, certificates								
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CSA approval	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL approval	Yes	No	Yes	No	No	No	No	No
FCC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DIN/ISO 9001	No	No	No	No	No	No	No	No
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	0 °C; AC mode	0 °C; AC mode	-20 °C; AC mode	-20 °C; AC mode	-20 °C; AC mode	-20 °C; AC mode	-20 °C; AC mode
• max.	45 °C; AC mode	0 °C; AC mode	0 °C; AC mode	60 °C; AC mode	60 °C; AC mode	60 °C; AC mode	60 °C; AC mode	60 °C; AC mode
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	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC	Yes; Windows 10 IoT Enterprise 2021 LTSC
Software								
Preinstalled								
• STEP 7 Professional 2010	No	No	No	No	No	No	No	No
• STEP 7 Professional (TIA Portal)	No	No	No	No	No	No	No	No
• STEP 7	No	No	No	No	No	No	No	No
• WinCC flexible Advanced 2008	No	No	No	No	No	No	No	No
• WinCC Advanced (TIA Portal)	No	No	No	No	No	No	No	No
• STEP 5	No	No	No	No	No	No	No	No

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Mechanics/material								
Material of housing	plastic	plastic	plastic	plastic	plastic	plastic	plastic	plastic
Handle	No	No	No	No	No	No	No	No
Socket for Kensington lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rubber corner guards	Yes; 4 corners covered by rubber bumpers as protectors	Yes	Yes	Yes; 4 corners covered by rubber bumpers as protectors	Yes; 4 corners covered by rubber bumpers as protectors	Yes; 4 corners covered by rubber bumpers as protectors	Yes; 4 corners covered by rubber bumpers as protectors	Yes; 4 corners covered by rubber bumpers as protectors
Dimensions								
Width	272 mm	272 mm	272 mm	272 mm	272 mm	272 mm	272 mm	272 mm
Height	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm
Depth	192 mm	192 mm	192 mm	192 mm	192 mm	192 mm	192 mm	192 mm
Weights								
Weight, approx.	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg
Scope of supply								
Accumulator	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power supply	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Backpack	No	No	No	No	No	No	No	No
SIMATIC Software	No	No	No	No	No	No	No	No
Recovery media	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery	No; Restore & Recovery

More information

More information is available on the internet at

https://new.siemens.com/global/en/products/automation/pc-based/simatic-industrial-tablet-pc.html

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