SIEMENS

Data sheet

6ES7730-1AA06-0AC0

SIMATIC IPC MD-57A 15.6" display Full HD (1920x 1080); Wi-Fi 6E Bluetooth V5.3 2x USB-C Gen 4; 3x USB-A Gen 3.2 x 2 1x USB-A Gen 2 2x RJ45 1GbE 1x HDMI 1.4b Intel® Core i7-12800HE processor (20 threads, 24 MB cache, up to 4.60 GHz) Intel® Iris® Xe graphics eligible 16 GB DDR5 SDRAM SO-DIMM 512 GB power supply cord with power plug: Europe; keyboard: QWERTY; without slider Windows 11 IoT Enterprise (version 22H2) 64-bit STEP 7 & WinCC & Safety Combo: STEP 7 Professional Combo, WinCC Advanced, Safety Advanced Combo (TIA Portal & Distributed) V19

General information	
Design of the programming device	Mobile computer
Display	
Design of display	15.6" full HD display in 16:9 format
Screen diagonal	15.6 in
Resolution (pixels)	
 Horizontal image resolution 	1 920 pixel
Vertical image resolution	1 080 pixel
General features	
 Non-reflecting 	Yes
Luminance	300 cd/m ²
Backlighting	
Type of backlighting	LED
Control elements	
Keyboard fonts	
Design	QWERTZ, QWERTY or AZERTY
Touch operation	
Integrated touch pad	Yes; Touch pad
Supply voltage	
Design of the power supply	External wide-range power supply, lithium ion battery
Rated value (DC)	19 V
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	i7-12800HE (2.4 to 4.6 GHz; 14 cores (6 performance cores; 8 efficient cores); 24 MB Smart Cache) or i5-12600HE (2.5 to 4.5 GHz; 12 cores (4 performance cores; 8 efficient cores); 18 MB Smart Cache)
Chipset	integrated at CPU
Hyper-threading	Yes
Turbo Boost Technology 2.0	Yes
Graphic	
Graphics controller	Intel® Iris® X ^e Integrated Graphics Controller
Drives	
CD-RW	No
DVD-ROM	No
DVD-RW	No
Hard disk	No
SSD	Yes; M.2
Memory capacity	512 Gbyte; Up to 2 TB SSD
TPM Security Chip	Yes; 2.0_
Memory	
Type of memory	DDR5 SO-DIMM
Work memory	
Number of slots	2; max. 2x 32 GB

Accumulator	
Replaceable	Yes; lithium polymer
Capacity	8 A·h
Interfaces	
Number of interfaces PROFIBUS DP	1; 1x PROFIBUS DP / MPI; 9-pin Sub-D socket; 9.6 kBaud to 12 MBaud
Number of RS 232 interfaces	1; 1x COM
Number of USB interfaces	6
• Type A	4; 2x USB-A 3.2 Gen1 and 2x USB-A 3.2 Gen2x1
• Type C	2: USB-C 4.0
Number of chip-card readers	1; Smart Card Reader (ISO/IEC 7816)
MPI	Yes
Bluetooth radio standard	Yes: V5.3
Multimedia card/SD card slot	2 in 1 (SDHC UHS-II, MMC)
Card reader for SIMATIC memory cards	SIMATIC memory cards (for S7-300/400), SMC (for S7-1x00), SIMATIC micro memory card (for S7-300/C7/ET 200) - including programming interfaces
Universal Audio Jack	No
Video interfaces	
analog video signal (VGA)	Yes; via adapter from HDMI to VGA
• DVI-I	Yes; via adapter from HDMI to DVI
DisplayPort	Yes; via adapter from HDMI to DisplayPort
Industrial Ethernet	
Industrial Ethernet interface	2x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes; Gigabit Ethernet; 2x RJ45 with 2 independent MAC/IP addresses
Wake on LAN	Yes
 IAMT (Intel Active Management Technology) 	Yes
WLAN	
• Type	IEEE802.a/b/g/n/ac R2/ax R2(PreStandard)
Interrupts/diagnostics/status information	
LED status display	4 status LEDs
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 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 signal cables	\pm 1 kV (according to IEC 61000-4-4, burst, length < 30 m); \pm 2 kV (according to IEC 61000-4-4, burst, length > 30 m); \pm 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	IP30
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
DIN/ISO 9001	Yes
Ecological footprint	
environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	354 kg
— global warming potential, (during production) [CO2 eq]	171 kg
— global warming potential, (during operation) [CO2 eq]	208 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-26.5 kg
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C; Max. 10 °C/h (no condensation)
• max.	40 °C; Max. 10 °C/h (no condensation)
Ambient temperature during storage/transportation	

Part	• min.	-20 °C; Max. 20 °C/h (no condensation)
Relative humidity Operation, min. Operation, min. S\$ %, At 30 "Ch (no condensation), Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14 85 %, At 30 "Ch (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-14 Vibrations Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-7 • tested according to IEC 60068-2-7 • tested according to IEC 60068-2-7 • No Operation, systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinose) pre-installed operating system • Windows 11 Software Prenstalled • STEP 7 Professional (TIA Portal) • STEP 7 • WinCC flexible Advanced 2008 • WinCC Advanced (TIA Portal) • STEP 7 • WinC flexible Advanced 2008 • WinCC Advanced (TIA Portal) • STEP 5 No Mochanics/material Material of housing Meterial o		
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Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 tested according to IEC 60068-2-29 No Operating systems Local language of operating system Windows 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled STEP 7 Professional (TIA Portal) STEP 7 WinCC flexible Advanced 2008 Since Advanced (TIA Portal) STEP 5 WinCC flexible Advanced 2008 No WinCC Advanced (TIA Portal) STEP 5 No Mochanics/material Handle Yes; retractable Socket for Kensington lock Yes Tubber comer guards Windth Soft Mare Windth Soft Mare Windth Soft Mare Socket for Kensington lock Yes Tubber comer guards Windth Soft Mare Socket for Kensington lock Yes Simenstons Width Soft Mare Socket for Kensington lock Yes Soft Mare Sof	Operation, max.	
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tested according to IEC 60068-2-27	Operation, tested according to IEC 60068-2-6	Yes
• lested according to IEC 60068-2-29 Operating systems Local language of operating system Wulti-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) pre-installed operating system • Windows 11 Software Preinstalled • STEP 7 Professional (TIA Portal) • STEP 7 Yes; software version: V19 • STEP 7 • WinCC flexible Advanced 2008 • WinCC Advanced (TIA Portal) • STEP 5 No Mochanics/material Material of housing Handle Yes; retractable Socket for Kensington lock rubber comer guards Ves Width 386 mm Height 41 mm Depth Weight, approx. 2.8 kg: incl. rechargeable battery Scope of supply Accumulator Yes Backpack Yes SiMATIC Software Yes Recovery media Yes Presidends in Exercise (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) Spanish, Italian, Chinese) Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) Presidents, Italian, Chinese) Step (Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) Presidents, Italian, Chinese) Step (Version 22H2) Software Step (Version 22H2) Software Step (Version 22H2) Software (Version 22H2) Software Ves Summanure Ves Summanure Ves Summanure Ves Secovery media Yes Secovery Media Ves Secovery Medi	Shock testing	
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Local language of operating system pre-installed operating system • Windows 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled • STEP 7 Professional (TIA Portal) • STEP 7 Professional (TIA Portal) • STEP 7 Yes; Professional 2021 SR2 • WinCC flexible Advanced 2008 • WinCC Advanced (TIA Portal) • STEP 5 No Mechanics/material Material of housing Handle Socket for Kensington lock rubber corner guards Ves Dimensions Width 386 mm Height 41 mm Depth 281 mm Weights Weight, approx. Scope of supply Accumulator Pes Backpack Yes SiMATIC Software Yes Recovery media Other free hotline Weight species of supsive statement of the supplied of the supplie	 tested according to IEC 60068-2-29 	No
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Preinstalled	pre-installed operating system	
Preinstalled	Windows 11	Yes; Windows 11 IoT Enterprise (version 22H2)
	Software	
● STEP 7 ● WinCC flexible Advanced 2008 ● WinCC Advanced (TIA Portal) ● STEP 5 No Mechanics/material Material of housing Handle Socket for Kensington lock rubber corner guards Width Height Height Jepth 281 mm Weights Weight, approx. Scope of supply Accumulator Power supply Accumulator Power supply Accumulator Power Power supply Accumulator Power Recovery media Yes; Professional 2021 SR2 No No No Yes; software version: V19 No Metal Pes; retractable Yes; retractable Yes Power Power Power Power supply Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Preinstalled	
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	• STEP 7	Yes; Professional 2021 SR2
◆ STEP 5 No Mechanics/material Material of housing metal Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Yes Dimensions Width 386 mm Height 41 mm Depth 281 mm Weights Weight, approx. 2.8 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other Yes free hotline Yes	 WinCC flexible Advanced 2008 	No
Mechanics/material Material of housing metal Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Yes Dimensions Width 386 mm Height 41 mm Depth 281 mm Weights Weight, approx. 2.8 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other Yes free hotline Yes	 WinCC Advanced (TIA Portal) 	Yes; software version: V19
Material of housing metal Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Yes Dimensions Width 386 mm Height 41 mm Depth 281 mm Weights Weight, approx. 2.8 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes Recovery media Yes Other free hotline Yes	• STEP 5	No
Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Yes Dimensions Width 386 mm Height 41 mm Depth 281 mm Weights Weight, approx. 2.8 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Mechanics/material	
Socket for Kensington lock rubber corner guards Yes Dimensions Width Height Depth 281 mm Weights Weight, approx. Scope of supply Accumulator Power supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes Recovery Tree hotline Yes Yes Yes Yes Yes Yes Yes Y	Material of housing	metal
rubber corner guards Pimensions Width 386 mm Height 41 mm Depth 281 mm Weights Weight, approx. 2.8 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Handle	Yes; retractable
Dimensions Width 386 mm Height 41 mm Depth 281 mm Weights Weight, approx. Scope of supply Yes Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other Yes free hotline Yes	Socket for Kensington lock	Yes
Width 386 mm Height 41 mm Depth 281 mm Weights Weight, approx. 2.8 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes; Restore & Recovery Other free hotline Yes	rubber corner guards	Yes
Height 41 mm Depth 281 mm Weights Weight, approx. 2.8 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Dimensions	
Depth 281 mm Weights Weight, approx. 2.8 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Width	386 mm
Weights Weight, approx. 2.8 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Height	41 mm
Weight, approx. Scope of supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline 2.8 kg; incl. rechargeable battery Yes Yes Yes Yes Yes Yes Recovery Recovery Yes Yes Yes Yes Yes Yes Yes Ye	Depth	281 mm
Scope of supply Accumulator Power supply Power supply Packpack SIMATIC Software Recovery media Yes Recovery media Yes Restore & Recovery Other free hotline Yes	Weights	
Accumulator Power supply Yes Backpack Yes SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Weight, approx.	2.8 kg; incl. rechargeable battery
Power supply Backpack Yes SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Scope of supply	
Power supply Backpack Yes SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Accumulator	Yes
SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Power supply	
Recovery media Yes; Restore & Recovery Other free hotline Yes	Backpack	Yes
Other Free hotline Yes	SIMATIC Software	Yes
free hotline Yes	Recovery media	Yes; Restore & Recovery
	·	
Note: Made in Germany: development and production in Germany	free hotline	Yes
	Note:	Made in Germany: development and production in Germany

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