SIEMENS

Data sheet

General information

6ES7730-1AC25-3BB0

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 64 GB DDR5 SDRAM SO-DIMM 2 TB power supply cord with power plug: UK; keyboard: QWERTY 2 TB NVMe SSD slider Windows 11 IoT Enterprise (version 22H2) 64-bit; with recovery USB flash drive STEP 7 & WinCC & Safety in the TIA Portal: STEP 7 Professional V19, WinCC Advanced V19, Safety Advanced V19 n/a

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® Xe 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	±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)
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
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	
• 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	
Vibrations ■ Operation, tested according to IEC 60068-2-6 Shock testing	Yes

• tested according to IEC 60068-2-29 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 11 **Software** Preinstalled • STEP 7 Professional (TIA Portal) • STEP 7 Yes; software version: V19 • STEP 7 Yes; Professional 2021 SR2 • WincC flexible Advanced 2008 • WincC Advanced (TIA Portal) • 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 Weight, approx. Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes (Restore & Recovery) Other Free hotline Yes Made in Germany: development and production in Germany	• tested according to IEC 60068-2-27	Yes
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; Software version: V19 ◆ STEP 7 Windows 10 ◆ Windows 11 ◆ STEP 7 Yes; Professional 2021 SR2 ◆ WinCC flexible Advanced 2008 ◆ WinC Advanced (TIA Portal) ◆ STEP 5 No Mechanics/matorial Material of housing ### ### ### ### ### ### ### ### ### #	 tested according to IEC 60068-2-29 	No
Spanish, Italian, Chinese) pre-installed operating system • Windows 11 Software Preinstalled • STEP 7 Professional (TIA Portal) • STEP 7 Yes; Forfessional 2021 SR2 • WinCC flexible Advanced 2008 • WinCC Advanced (TIA Portal) • STEP 5 • WinCC Advanced (TIA Portal) • STEP 5 No Mechanics/material Material of housing Handle Socket for Kensington lock rubber corner guards Dimensions Width ### 41 mm Depth ### 281 mm Weights Weight, approx. \$ 2.8 kg; incl. rechargeable battery Scope of supply Accumulator Power supply Accumulator Power supply Yes Backpack SiMATIC Software Yes Pres Ves; Windows 11 IoT Enterprise (version 22H2) Yes; windows 11 IoT Enterprise (version 22H2) **Yes **Total Advanced (TIA Portal) **T	Operating systems	
Windows 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled STEP 7 Professional (TIA Portal) STEP 7 Yes; Professional 2021 SR2 WinCC flexible Advanced 2008 WinCC Advanced (TIA Portal) STEP 5 No Wes; software version: V19 STEP 5 No Wechanics/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 Other Free hotline Yes Restore & Recovery Other	Local language of operating system	
Preinstalled STEP 7 Professional (TIA Portal) STEP 7 Yes; software version: V19 STEP 7 Yes; Professional 2021 SR2 WinCC flexible Advanced 2008 WinCC Advanced (TIA Portal) STEP 5 No Mechanics/material Material of housing metal Handle Yes; retractable Socket for Kensington lock Yes rubber comer guards Vindth 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 (Secovery Medical Contents) Free hotline Tene hotline Yes Festore & Recovery Other Free hotline Yes	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 Pimensions Width 386 mm Height Depth 281 mm Weights Weight, approx. \$2.8 kg; incl. rechargeable battery Scope of supply Accumulator Power supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes; Portessional 2021 SR2 No No No No Metal Pes; retractable Yes Power supply Yes Backpack Yes SiMATIC Software Pes Recovery media Yes Resovery media Yes Power supply Tes Pres Power supply Pes Recovery Pes Recovery Other Tree hotline Yes	Preinstalled	
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WinCC Advanced (TIA Portal) STEP 5 No Machanics/material Material of housing Handle Socket for Kensington lock rubber corner guards Width Height Height Jepth Jest mm Weights Weight, approx. Scope of supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes Ves (Steven version: V19 No No Netal Metal Hetal H	• STEP 7	Yes; Professional 2021 SR2
● STEP 5 No Mechanics/material	 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 hottine Yes	 WinCC Advanced (TIA Portal) 	Yes; software version: V19
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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 386 mm Height 41 mm Depth 281 mm Weights Weight, approx. Scope of supply Accumulator Power supply Accumulator Power supply Backpack SiMATIC Software Recovery media Yes Recovery media Yes Free hotline Yes Yes Yes Yes Yes Yes Recovery Yes Recovery Yes Yes Yes Yes Yes Yes Recovery Yes Yes Yes Yes Yes Yes Yes Ye	Material of housing	metal
rubber corner guards 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	Handle	Yes; retractable
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	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 Power supply Backpack SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Height	41 mm
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	Depth	281 mm
Scope of supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes Recovery media Yes Yes Retrovery media Yes; Restore & Recovery Other free hotline Yes	Weights	
Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes 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	
Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Accumulator	Yes
SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Power supply	Yes
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
	Other	
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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