SIEMENS

Data sheet

6ES7730-1AC04-0AC0

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 64 GB DDR5 SDRAM SO-DIMM 512 GB power supply cord with power plug: USA; 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	(TIA Fortal & Distributed) V19
	Mobile computer
Design of the programming device	Mobile computer
Display Design of display	15 C" full LID display in 16:0 format
Design of display	15.6" full HD display in 16:9 format
Screen diagonal	15.6 in
Resolution (pixels)	1 020 pival
Horizontal image resolutionVertical image resolution	1 920 pixel 1 080 pixel
Vertical image resolution General features	ι σου μιλαι
Non-reflecting	Yes
Luminance	300 cd/m²
Backlighting	OU CUITI
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
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	

Operation, max. Operation, max. Solvibrations Operation, tested according to IEC 60068-2-6 Yes Shock testing Itested according to IEC 60068-2-7 Itested according to IEC 60068-2-9 No Operating systems Local language of operating system Important operating system Windows 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled STEP 7 Professional (TIA Portal) Yes; Professional 2021 SR2	• min.	-20 °C; Max. 20 °C/h (no condensation)
Operation, min. Operation, min. S %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14 Operation, max. SS %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-30, IEC 60068-2-14 Vibrations Operation, tested according to IEC 60068-2-6 Shock testing Itested according to IEC 60068-2-27 Itested according to IEC 60068-2-27 Itested 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 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled STEP 7 Professional (TIA Portal) Yes; software version: V19 Yes; Professional 2021 SR2	• max.	60 °C; Max. 20 °C/h (no condensation)
Operation, max. Operation, max. Solvibrations Operation, tested according to IEC 60068-2-6 Ves Shock testing Itested according to IEC 60068-2-7 Ves Itested according to IEC 60068-2-7 Ves Itested according to IEC 60068-2-7 Ves Itested according to IEC 60068-2-9 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 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled STEP 7 Professional (TIA Portal) Yes; Professional 2021 SR2	lative humidity	
Vibrations Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-7 tested according to IEC 60068-2-27 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 11 Yes; Windows 11 loT Enterprise (version 22H2) Software Preinstalled STEP 7 Professional (TIA Portal) STEP 7 Yes; Professional 2021 SR2	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, 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 Multi-Language User Interface (MUI): 6 languages (English, German, French Spanish, Italian, Chinese) pre-installed operating system • Windows 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled • STEP 7 Professional (TIA Portal) • STEP 7 Yes; Professional 2021 SR2	Operation, max.	85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
Shock testing • tested according to IEC 60068-2-27 • 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 11 Yes; Windows 11 loT Enterprise (version 22H2) Software Preinstalled • STEP 7 Professional (TIA Portal) • STEP 7 Yes; Professional 2021 SR2	prations	
 tested according to IEC 60068-2-27 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 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled STEP 7 Professional (TIA Portal) STEP 7 Yes; Professional 2021 SR2 	Operation, tested according to IEC 60068-2-6	Yes
 ◆ 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 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled ◆ STEP 7 Professional (TIA Portal) ◆ STEP 7 Yes; software version: V19 ◆ STEP 7 Yes; Professional 2021 SR2 	ock testing	
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 Yes; Windows 11 loT Enterprise (version 22H2) Software Preinstalled ● STEP 7 Professional (TIA Portal) ● STEP 7 Yes; Professional 2021 SR2	• tested according to IEC 60068-2-27	Yes
Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French Spanish, Italian, Chinese) pre-installed operating system • Windows 11 Yes; Windows 11 loT Enterprise (version 22H2) Software Preinstalled • STEP 7 Professional (TIA Portal) • STEP 7 Yes; Professional 2021 SR2	• tested according to IEC 60068-2-29	No
Spanish, Italian, Chinese) pre-installed operating system • Windows 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled • STEP 7 Professional (TIA Portal) • STEP 7 Yes; Professional 2021 SR2	rating systems	
Windows 11 Yes; Windows 11 IoT Enterprise (version 22H2) Software Preinstalled STEP 7 Professional (TIA Portal) STEP 7 Yes; software version: V19 Yes; Professional 2021 SR2	cal language of operating system	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
Software Preinstalled ● STEP 7 Professional (TIA Portal) ● STEP 7 Yes; software version: V19 Yes; Professional 2021 SR2	e-installed operating system	
Preinstalled • STEP 7 Professional (TIA Portal) • STEP 7 Yes; software version: V19 Yes; Professional 2021 SR2	• Windows 11	Yes; Windows 11 IoT Enterprise (version 22H2)
 STEP 7 Professional (TIA Portal) STEP 7 Yes; software version: V19 Yes; Professional 2021 SR2 	ware	
STEP 7 Yes; Professional 2021 SR2	einstalled	
	STEP 7 Professional (TIA Portal)	Yes; software version: V19
a WinCC flouible Advanced 2009	• STEP 7	Yes; Professional 2021 SR2
• WITHOU HEXIDIE AUVANCEU 2008	WinCC flexible Advanced 2008	No
WinCC Advanced (TIA Portal) Yes; software version: V19	WinCC Advanced (TIA Portal)	Yes; software version: V19
• STEP 5 No	• STEP 5	No
Mechanics/material	hanics/material	
Material of housing metal	iterial of housing	metal
Handle Yes; retractable	ndle	Yes; retractable
Socket for Kensington lock Yes	cket for Kensington lock	Yes
rubber corner guards Yes	ober corner guards	Yes
Dimensions	ensions	
Width 386 mm	dth	386 mm
Height 41 mm	ight	41 mm
Depth 281 mm	pth	281 mm
Weights	ghts	
Weight, approx. 2.8 kg; incl. rechargeable battery	eight, approx.	2.8 kg; incl. rechargeable battery
Scope of supply	pe of supply	
Accumulator Yes	-	Yes
Power supply Yes	wer supply	Yes
Backpack Yes		
SIMATIC Software Yes	•	Yes
Recovery media Yes; Restore & Recovery		Yes; Restore & Recovery
Other	-	
free hotline Yes	er	
Note: Made in Germany: development and production in Germany		Yes

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