

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 (2x32 GB) 2 TB power supply cord with power plug: Europe; keyboard: QWERTY without Slider Windows 11 IoT Enterprise (version 24H2) 64-bit; preinstalled with SIMATIC software V20 trial: STEP 7 Professional Combo (V20 & 2021 SR2), WinCC Advanced V20, Safety Advanced (V20 & Distributed Safety V5.4 SP5) 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
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
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	1 Tbyte; ...
TPM Security Chip	Yes; 2.0_
Memory	
Type of memory	DDR5 SO-DIMM
Work memory	

• Number of slots	2; _
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
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	
— 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
Degree and class of protection	
IP degree of protection	IP30
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	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	
• 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

- Operation, tested according to IEC 60068-2-6

Yes

Shock testing

- tested according to IEC 60068-2-27
- tested according to IEC 60068-2-29

Yes
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
- WinCC flexible Advanced 2008
- WinCC Advanced (TIA Portal)
- STEP 5

Yes; software version: V19
Yes; Professional 2021 SR2
No
Yes; software version: V19
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

Note:

Made in Germany: development and production in Germany

Approvals / Certificates

General Product Approval

Dangerous goods

Environment



[Dangerous goods information](#)



Environment

[Environmental Conformations](#)

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