## **SIEMENS**

## **Data sheet**

General information

## 6ES7730-1AB00-2AB0

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 32 GB DDR5 SDRAM SO-DIMM 512 GB power supply cord with power plug: Europe; keyboard: QWERTZ 1 TB NVMe SSD slider Windows 11 IoT Enterprise (version 22H2) 64-bit 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
<ul> <li>Vertical image resolution</li> </ul>	1 080 pixel
General features	
Non-reflecting	Yes
Luminance	300 cd/m <sup>2</sup>
Backlighting	
<ul> <li>Type of backlighting</li> </ul>	LED
Control elements	
Keyboard fonts	
• Design	QWERTZ, QWERTY or AZERTY
Touch operation	
<ul> <li>Integrated touch pad</li> </ul>	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	
<ul> <li>permissible range, lower limit</li> </ul>	47 Hz
<ul> <li>permissible range, upper limit</li> </ul>	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
<ul> <li>Memory capacity</li> </ul>	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
<ul> <li>IAMT (Intel Active Management Technology)</li> </ul>	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	
<ul> <li>Interference immunity against discharge of static electricity acc. to IEC 61000-4-2</li> </ul>	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  Yes; Windows 11 IoT Enterprise (version 22H2)  Software  Preinstalled  • STEP 7 Professional (TIA Portal) • STEP 7 Yes; software version: V19 • STEP 7 Yes; Software version: V19 • WinCC Rixible Advanced 2008 • WinCC Advanced (TIA Portal) • STEP 5 No  Material of housing  Material of housing  Material of housing  Material of housing  Handle Socket for Kensington lock rubber corner guards  Ves  Dimonsions  Width 386 mm Height 41 mm Depth 281 mm  Weights  Weight, approx.  Scope of supply  Accumulator Yes  Power supply  Yes  Backpack Yes  Recovery media Yes; Restore & Recovery  Other  Tree hotline Yes  Restoreman, French, Spanish, Italian, Chinese)  Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)  Weights  ### Convertion of Pressional Conversion of Pressional 2021 SR2  ### Ves  ### Power supply  Yes  Recovery media Yes; Restore & Recovery  Other  free hotline Yes  Mate 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  • WinCC flexible Advanced 2008  • WinCC Advanced (TIA Portal)  • STEP 5  Mechanics/material  Material of housing  Handle  Socket for Kensington lock  rubber corner guards  Width  Height  Height  Weight, approx.  Scope of supply  Accumulator  Power supply  Res  Recovery media  Meterial of Nouring  Pes  Sirea  Muthi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)  Yes; Windows 11 IoT Enterprise (version 22H2)  Yes; software version: V19  Yes; software version: V19  Yes; Software version: SP5  Yes; Software version: V19  Yes; software version: V19  Yes; retractable  Yes  Pes  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	<ul> <li>tested according to IEC 60068-2-29</li> </ul>	No
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  • WinCC Advanced (TIA Portal)  • STEP 5  No  Machanics/material  Material of housing  Handle  Yes; retractable  Socket for Kensington lock  rubber corner guards  Ves  Dimensions  Width  386 mm  Height  41 mm  Depth  Pepth  281 mm  Weights  Weight, approx.  Scope of supply  Accumulator  Power supply  Yes  Backpack  SiMATIC Software  Yes  Recovery media  Ves  Residence Supply  Free hotline  Yes  Pessestore & Recovery  Other  Free hotline  Yes	Operating systems	
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 Yes; Software version: V19 STEP 5 No  Material of housing Handle Yes; retractable Socket for Kensington lock Yes  Tubber corner guards  Width Sights Weight Weight Weight Weight Accumulator Power supply Accumulator Yes SIMATIC Software Yes SIMATIC Software Yes SIMATIC Software Yes SIMATIC Software Yes Secope of Supply  Accurry Free hotline  Yes; Restore & Recovery  Other Free hotline  Yes Secope of Recovery Secope of Supply Secope of Sup	Local language of operating system	
Software           Preinstalled	pre-installed operating system	
Preinstalled	• Windows 11	Yes; Windows 11 IoT Enterprise (version 22H2)
	Software	
	Preinstalled	
	<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	Yes; software version: V19
WinCC Advanced (TIA Portal) STEP 5 No  Mechanics/material  Material of housing Handle Socket for Kensington lock rubber corner guards  Width Height Jepth Jepth Jepth Weights  Weight, approx.  Scope of supply  Accumulator Power supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes, software version: V19 No No No Methal Height No No No Methal No No Methal No No No Methal No No No Methal No	• STEP 7	Yes; Professional 2021 SR2
● STEP 5 No    Mechanics/material	<ul> <li>WinCC flexible Advanced 2008</li> </ul>	Yes; Software version: SP5
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 free hotline	<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	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; Restore & Recovery  Other free hotline	• 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  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	Mechanics/material	
Socket for Kensington lock rubber corner guards  Pimensions  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  Yes  Yes  Yes  Recovery  Yes  Yes  Yes  Yes  Recovery  Yes  Yes  Yes  Yes  Yes  Yes  Recovery  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Recovery  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	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. 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	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  Recovery media 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  Power supply  Backpack  SIMATIC Software  Recovery media  Yes; Restore & Recovery  Other  free hotline  2.8 kg; incl. rechargeable battery  Yes  Yes  Yes  Yes  Yes  Recovery  Yes  Yes	Depth	281 mm
Scope of supply  Accumulator  Power supply  Backpack  SIMATIC Software  Recovery 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
wade in Containy, development and production in Containy	Note:	Made in Germany: development and production in Germany

last modified: 8/22/2024 🖸