## **SIEMENS**

## **Data sheet**

## 6ES7730-1AB06-0AC0

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 32 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	Constal information	
	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	
<ul><li>Horizontal image resolution</li><li>Vertical image resolution</li></ul>	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	
<ul> <li>analog video signal (VGA)</li> </ul>	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	Cymanic to ground, longur 2 to III)
IP degree of protection	IP30
Standards, approvals, certificates	11 30
CE mark	Yes
	Yes
CSA approval	Yes
UL approval DIN/ISO 9001	Yes
Ecological footprint	100
environmental product declaration	Yes
Global warming potential	100
— global warming potential, (total) [CO2 eq]	354 kg
global warming potential, (total) [CO2 eq]      global warming potential, (during production) [CO2	354 kg 171 kg
eq]  global warming potential, (during production) [CO2  eq]	208 kg
eq]  — global warming potential, (during operation) [CO2 eq]  — global warming potential, (after end of life cycle)	-26.5 kg
eq]	-26.5 kg
eq] — global warming potential, (after end of life cycle) [CO2 eq]	-26.5 kg
eq] — global warming potential, (after end of life cycle) [CO2 eq]  Ambient conditions	-26.5 kg 5 °C; Max. 10 °C/h (no condensation)
eq] — global warming potential, (after end of life cycle) [CO2 eq]  Ambient conditions  Ambient temperature during operation	

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  **Windows 11  **Vesional language of operating system  **Vesional language user interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)  **Vesional language user interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)  **Vesional language user interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)  **Vesional language user user interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)  **Vesional language user user interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)  **Vesional language user user user user user user user use		
Operation, min.     Operation, max.     Operation, max.     Operation, max.     S %, All 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14     S %, All 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 system     Cucal language of operating system     • Windows 11     Ves; Windows 11 IoT Enterprise (version 22H2)     Software  Preinstalled     • STEP 7 Professional (TIA Portal)     • STEP 7 Professional (TIA Portal)     • STEP 7 Ves; Professional (TIA Portal)     • STEP 7     • WinCC flexible Advanced 2008     • WinCC Advanced (TIA Portal)     • STEP 5     No     Mochanics/material  Material of housing metal  Handle Yes; software version: V19  Mochanics/material  Material of housing metal  Handle Yes; retractable  Socket for Kensington lock Yes  Windth 386 mm  Height 41 mm  Depth 281 mm  Weights  Weight, approx.  2.8 kg; incl. rechargeable battery  Secope of supply  Accumulator Yes  Backpack Yes  SIMATIC Software  Yes  Recovery media  Yes; Restore & Recovery  Other  free hotline  Yes: Restore & Recovery		oo o, wax. 20 om (no condensation)
Winditions	,	
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 Soft Mare Socket for Kensington lock Yes Soft Mare Socket for Kensington lock Yes Soft Mare Socket Soft Mare Soft Mare Socket Soft Mare Soft	Operation, max.	
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  • Windows 11  • STEP 7 Professional (TIA Portal) • STEP 7 No  • WinCC flexible Advanced 2008 • WinCC Advanced (TIA Portal)  * STEP 7 No  * Windows 11  * STEP 7 No  • Windows 11  * STEP 7 Professional (TIA Portal) • STEP 7 No  • Windows 11  * STEP 7 Professional 2021 SR2 • Windows 12  * Windows 13  * Windows 14  * STEP 7 Professional (TIA Portal) • STEP 5  * Windows 15  * Windows 16  * Windows 17  * Windows 17  * Windows 17  * Windows 18	Vibrations	
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)  Stepsish, Lalian, Chinese)  Stepsish Lalian, Chinese	Shock testing	
Departing systems  Local language of operating system  Pre-installed operating system  ● Windows 11  Software  Preinstalled  ● STEP 7 Professional (TIA Portal)  ● STEP 8 No  Mochanics/material  Material of housing metal  Handle Yes; retractable  Socket for Kensington lock Yes  rubber comer guards 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  Recovery metia Yes  Recovery metia  Pres Recovery  Given Park Prench, Spanish, Italian, Chinese)  Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)  Presintalled (Park) Windows 11 IoT Enterprise (version 22H2)  Software version: V19  Yes; roftware version: V19  No  Methal President Presid	<ul> <li>tested according to IEC 60068-2-27</li> </ul>	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; 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 supply  Fes  Fes Recovery  Fes Recovery  Other  Free hotline  Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)  Wes; Windows 11 IoT Enterprise (version 22H2)  Yes; Windows 11 IoT Enterprise (version 22H2)  Software version: V19  Yes; Vindows 11 IoT Enterprise (version 22H2)  Software version: V19  Yes; Vindows 11 IoT Enterprise (version 22H2)  Yes; Windows 12 IoT Enterprise (version 22H2)  Yes; Software version: V19  Yes; Vindows 12 IoT Enterprise (version 22H2)  Yes; Vindows 12 IoT Enterprise (version 22H2)  Yes; Vindows 12 IoT Enterprise (version 22H2)  Yes  Windows 12 IoT Enter	<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 No  • WinCC Advanced (TIA Portal)  • STEP 5 No  Mechanics/material  Material of housing metal  Handle Yes; retractable  Socket for Kensington lock Yes  rubber corner guards  Ves  Dimensions  Width 386 mm  Height 41 mm  Depth 281 mm  Weights  Weight, approx. 2.8 kg: incl. rechargeable battery  Scope of supply  Accumulator Yes  Backpack Yes  SIMATIC Software Yes  Pres Nord Pes  Pres Recovery media  Yes  Pres Recovery  Other  free hotline  Yes	Operating systems	
Windows 11  Yes; Windows 11 IoT Enterprise (version 22H2)  Software  Preinstalled  STEP 7 Professional (TIA Portal) STEP 7 Wes; Professional 2021 SR2 WinCC flexible Advanced 2008 WinCC Advanced (TIA Portal) STEP 5 No  Mechanics/material  Material of housing Handle Yes; retractable Socket for Kensington lock rubber comer guards  Width Safe mm Height Height Height Septh Septh Sephh	Local language of operating system	
Preinstalled	pre-installed operating system	
Preinstalled	<ul><li>Windows 11</li></ul>	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  Power  Power  Power supply  Yes  Recovery media  Yes  Recovery  Other  free hotline  Yes	Preinstalled	
WinCC Advanced (TIA Portal) STEP 5 No  Mechanics/material  Material of housing Handle Socket for Kensington lock rubber corner guards  Width Height Jepth Jepth Jest mm  Weights  Weight, approx.  Scope of supply  Accumulator Power supply Backpack SiMATIC Software Recovery media Ves; retractable Yes; retractable Yes Power supply Fes  No  No  No  No  Yes; retractable Yes  Ves  Ves  Ves  Ves  Ves  Ves  Ves	<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	Yes; software version: V19
	• 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	<ul> <li>WinCC flexible Advanced 2008</li> </ul>	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	<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 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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