## **SIEMENS**

## **Data sheet**

## 6ES7730-0AB10-0BC0

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 i5 -12600HE processor (16 threads, 18M cache, up to 4.50 GHz) Intel® Iris® Xe graphics eligible 32 GB DDR5 SDRAM SO-DIMM 1 TB power supply cord with power plug: Europe; keyboard: QWERTZ without slider Windows 11 IoT Enterprise (version 22H2) 64-bit; with recovery USB flash drive STEP 7 & WinCC & Safety Combo: STEP 7 Professional Combo (V19 & 2021 SR2), WinCC Advanced V19 &, Safety Advanced Combo (V19 & Distributed V5.4 SP5) n/a

Design of the programming device  Display  Design of display  Design of display  15.6" full HD display in 16:9 format  Screen diagonal  Resolution (pixels)  Horizontal image resolution  Vertical image resolution  General features  Mobile computer  15.6 in  19.0 pixel  1 920 pixel  1 080 pixel	
Design of display  Screen diagonal  Resolution (pixels)  • Horizontal image resolution  • Vertical image resolution  15.6" full HD display in 16:9 format  15.6 in  1920 pixel  1 920 pixel	
Screen diagonal 15.6 in  Resolution (pixels)  • Horizontal image resolution 1 920 pixel  • Vertical image resolution 1 080 pixel	
Resolution (pixels)  • Horizontal image resolution  • Vertical image resolution  1 920 pixel  1 080 pixel	
<ul> <li>Horizontal image resolution</li> <li>Vertical image resolution</li> <li>1 920 pixel</li> <li>1 080 pixel</li> </ul>	
Vertical image resolution     1 080 pixel	
General features	
Contrat locator	
• Non-reflecting Yes	
● Luminance 300 cd/m²	
Backlighting	
• Type of backlighting LED	
Control elements	
Touch operation	
• Integrated touch pad  Yes	
Supply voltage	
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	
Hyper-threading Yes	
Turbo Boost Technology 2.0 Yes	
Graphic	
Graphic	
Graphic  Graphics controller  Intel® Iris® Xe Integrated Graphics Controller	
Graphic Graphics controller Intel® Iris® Xe Integrated Graphics Controller Drives	
Graphic Graphics controller Intel® Iris® Xe Integrated Graphics Controller  Drives CD-RW No	
Graphic Graphics controller  Intel® Iris® Xe Integrated Graphics Controller  Drives  CD-RW  No  DVD-ROM  No	
Graphic  Graphics controller  Intel® Iris® Xe Integrated Graphics Controller  Drives  CD-RW  No  DVD-ROM  NO  DVD-RW  No	
Graphic Graphics controller  Intel® Iris® Xe Integrated Graphics Controller  Drives  CD-RW  No  DVD-ROM  No  DVD-RW  No  Hard disk  No	
Graphic Graphics controller  Intel® Iris® Xe Integrated Graphics Controller  Drives  CD-RW  No  DVD-ROM  No  DVD-RW  No  Hard disk  No  SSD  Yes	
Graphic Graphics controller  Drives  CD-RW  DVD-ROM  DVD-RW  No  DVD-RW  No  Hard disk  SSD  Memory capacity  Memory capacity  Intel® Iris® Xe Integrated Graphics Controller  No  No  No  Yes  512 Gbyte; Up to 2 TB SSD	
Graphics controller  Drives  CD-RW  DVD-ROM  DVD-RW  No  DVD-RW  Hard disk  SSD  • Memory capacity  TPM Security Chip  Intel® Iris® X° Integrated Graphics Controller  No  No  No  No  State of the stat	
Graphics controller  Drives  CD-RW  DVD-ROM  DVD-RW  No  Hard disk  SSD  Memory  Memory  Memory  Intel® Iris® Xe Integrated Graphics Controller  No  No  No  No  Separated Graphics Controller  No  No  No  Separated Graphics Controller  No  No  Separated Graphics Controller  No  No  State of the separated Graphics Controller  No  No  Separated Graphics Controller  No  No  Separated Graphics Controller  No  No  Separated Graphics Controller	
Graphics controller  Drives  CD-RW  DVD-ROM  DVD-RW  No  DVD-RW  No  Hard disk  SSD  Memory capacity  TPM Security Chip  Mork memory  Intel® Iris® Xe Integrated Graphics Controller  No  No  No  No  SVe Integrated Graphics Controller  No  No  No  SVe Integrated Graphics Controller  No  No  No  No  SU  Yes  Yes  Memory  Yes	
Graphics controller  Drives  CD-RW  DVD-ROM  DVD-RW  No  DVD-RW  Hard disk  SSD  Memory capacity  Memory  Work memory  Nuel® Iris® Xe Integrated Graphics Controller  No  No  No  No  No  No  No  SED  Yes  Memory  Yes  Memory  No  Yes  Memory  Yes	
Graphic Graphics controller  Intel® Iris® X° Integrated Graphics Controller  Drives  CD-RW  No  DVD-ROM  No  DVD-RW  No  Hard disk  No  SSD  Memory capacity  TPM Security Chip  Work memory  Number of slots  2  Accumulator	
Graphic Graphics controller  Drives  CD-RW  DVD-ROM  DVD-RW  No  Hard disk  SSD  Memory capacity  TPM Security Chip  Work memory  Number of slots  Accumulator  Replaceable  Intel® Iris® Xe Integrated Graphics Controller  No  No  No  No  No  No  SVB  No  Yes  S12 Gbyte; Up to 2 TB SSD  Yes  2  Accumulator  Replaceable  Yes	
Graphic Graphics controller  Drives  CD-RW  No  DVD-ROM  DVD-RW  No  Hard disk  SSD  • Memory capacity  TPM Security Chip  Work memory  • Number of slots  Accumulator  Replaceable  Capacity  Intel® Iris® X° Integrated Graphics Controller  No  No  No  SVa  No  No  State of the s	aud
Graphic Graphics controller  Drives  CD-RW  DVD-ROM  DVD-ROM  No  DVD-RW  Hard disk  SSD  • Memory capacity  TPM Security Chip  Work memory  • Number of slots  Accumulator  Replaceable  Capacity  Intel® Iris® X° Integrated Graphics Controller  No  No  SVB  No  No  Yes  512 Gbyte; Up to 2 TB SSD  Yes  2  Accumulator  Replaceable  Yes  Capacity  8 A-h  Interfaces	aud

• Type A	4
• Type C	2
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
• DVI-I	Yes
DisplayPort	Yes
Industrial Ethernet	0.5% (/DI/5)
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      LAMT (Intel Active Management Technology)	Yes Yes
IAMT (Intel Active Management Technology)  EMC	res
Interference immunity against discharge of static electricity  • Interference immunity against discharge of static	Yes; ±4 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge
Interference immunity against discharge of static electricity acc. to IEC 61000-4-2	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
Interference immunity on signal cables	ground) ±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 approvar	
UL approval	Yes
DIN/ISO 9001	Yes
DIN/ISO 9001 Ambient conditions	
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation	Yes
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.	Yes 5 °C; Max. 10 °C/h (no condensation)
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.	Yes
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  60 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  60 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  60 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  60 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations  • Operation, tested according to IEC 60068-2-6	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  60 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations  • Operation, tested according to IEC 60068-2-6  Shock testing	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  60 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations  • Operation, tested according to IEC 60068-2-6  Shock testing  • tested according to IEC 60068-2-27	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  60 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  Yes  Yes
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations  • Operation, tested according to IEC 60068-2-6  Shock testing  • tested according to IEC 60068-2-29  • tested according to IEC 60068-2-29	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  60 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  Yes  Yes
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations  • Operation, tested according to IEC 60068-2-6  Shock testing  • tested according to IEC 60068-2-27  • tested according to IEC 60068-2-29  Operating systems	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  60 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  Yes  Yes  No  Multi-Language User Interface (MUI): 6 languages (English, German, French,
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations  • Operation, tested according to IEC 60068-2-6  Shock testing  • tested according to IEC 60068-2-27  • tested according to IEC 60068-2-29  Operating systems  Local language of operating system	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  60 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  Yes  Yes  No  Multi-Language User Interface (MUI): 6 languages (English, German, French,
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations  • Operation, tested according to IEC 60068-2-6  Shock testing  • tested according to IEC 60068-2-27  • tested according to IEC 60068-2-29  Operating systems  Local language of operating system  pre-installed operating system	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  Yes  Yes  Yes  No  Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations  • Operation, tested according to IEC 60068-2-6  Shock testing  • tested according to IEC 60068-2-27  • tested according to IEC 60068-2-29  Operating systems  Local language of operating system  • Windows 11	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  Yes  Yes  Yes  No  Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations  • Operation, tested according to IEC 60068-2-6  Shock testing  • tested according to IEC 60068-2-27  • tested according to IEC 60068-2-29  Operating systems  Local language of operating system  • Windows 11  Software	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 10 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  Yes  Yes  Yes  No  Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
DIN/ISO 9001  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Relative humidity  • Operation, min.  • Operation, max.  Vibrations  • Operation, tested according to IEC 60068-2-6  Shock testing  • tested according to IEC 60068-2-27  • tested according to IEC 60068-2-29  Operating systems  Local language of operating system  • Windows 11  Software  Preinstalled	Yes  5 °C; Max. 10 °C/h (no condensation)  40 °C; Max. 20 °C/h (no condensation)  -20 °C; Max. 20 °C/h (no condensation)  5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14  Yes  Yes  Yes  No  Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)  Yes; Windows 11 loT Enterprise (version 22H2)

WinCC flexible Advanced 2008	Yes; Software version: SP5
WinCC Advanced (TIA Portal)	Yes
• 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	
free hotline	Yes
Note:	Made in Germany: development and production in Germany

last modified:

8/13/2024