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Data sheet 6ES7730-1AB14-0BB0

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 (1x32GB) 1 TB power supply cord with power plug: USA; keyboard: QWERTY without Slider Windows 11 IoT Enterprise (version 22H2) 64-bit; with recovery USB flash drive; preinstalled with SIMATIC software V19 STEP 7 & WinCC & Safety in TIA Portal licenses: STEP 7 Professional V21, WinCC Advanced V21, Safety Advanced V21 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/m²
Backlighting	
● Type of backlighting	LED
Control elements	
Keyboard	
● 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	i7-13800HE (2.5 to 5.0 GHz; 14 cores (6 performance cores; 8 efficient cores); 24 MB Smart Cache) or i5-13600HE (2.7 to 4.8 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 card or NVIDIA RTX A500 option
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_
Storage	
Type of memory	DDR5 SO-DIMM

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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 with Power Delivery 3.0
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
FCC	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	

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● 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	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 10	Yes; Windows 10 IoT Enterprise 2021 LTSC
● Windows 11	Yes; Windows 11 IoT Enterprise (version 24H2)
Software	
Preinstalled	
● STEP 7 Professional (TIA Portal)	Yes
● STEP 7	Yes
● WinCC flexible Advanced 2008	No
● 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 unit	Yes
backpack	Yes
SIMATIC Software	Yes
Recovery media	Yes; Restore & Recovery
Other	
Note:	Made in Germany: development and production in Germany

Classifications

	Version	Classification
eClass	16	27-33-02-92
eClass	14	27-33-02-92
eClass	12	27-33-02-92
eClass	9.1	27-33-02-92
eClass	9	27-33-02-92
eClass	8	27-24-92-03
eClass	7.1	27-24-92-03
eClass	6	27-24-92-03
ETIM	10	EC002584
ETIM	9	EC002584
ETIM	8	EC002584
ETIM	7	EC002584

Approvals / Certificates

General Product Approval

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Industry Canada (IC)

BIS CRS

General Product Approval	Radio Equipment Type Approval Certificate	Dangerous goods			Environment
SUBTEL	SUBTEL	Dangerous goods information	Dangerous goods information	Test Summary Report UN 38.3	

Environment
Environmental Confirmations

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