

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 16 GB DDR5 SDRAM SO-DIMM (1x16 GB) 512 GB power supply cord with power plug: UK; keyboard: QWERTY without Slider without operating system (without USB flash drive) 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/m ² |
| Backlighting | |
| • Type of backlighting | LED |
| Control elements | |
| 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 | |
| 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 |
| <ul style="list-style-type: none"> • Type A • Type C | 4; 2x USB-A 3.2 Gen1 and 2x USB-A 3.2 Gen2x1 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 style="list-style-type: none"> • analog video signal (VGA) • DVI-I • DisplayPort | Yes; via adapter from HDMI to VGA Yes; via adapter from HDMI to DVI Yes; via adapter from HDMI to DisplayPort |
| Industrial Ethernet | |
| <ul style="list-style-type: none"> • Industrial Ethernet interface <ul style="list-style-type: none"> — 100 Mbps — 1000 Mbps • Wake on LAN • IAMT (Intel Active Management Technology) | 2x Ethernet (RJ45) Yes Yes; Gigabit Ethernet; 2x RJ45 with 2 independent MAC/IP addresses Yes Yes |
| WLAN | |
| <ul style="list-style-type: none"> • 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 style="list-style-type: none"> • 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 |
| Interference immunity to cable-borne interference | |
| <ul style="list-style-type: none"> • Interference immunity on supply cables • Interference immunity on signal 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) ±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 |
| Ecological footprint | |
| <ul style="list-style-type: none"> • environmental product declaration | Yes |
| Global warming potential | |
| <ul style="list-style-type: none"> — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] | 354 kg 171 kg 208 kg -26.5 kg |
| Ambient conditions | |
| Ambient temperature during operation | |
| <ul style="list-style-type: none"> • min. • max. | 5 °C; Max. 10 °C/h (no condensation) 40 °C; Max. 10 °C/h (no condensation) |
| Ambient temperature during storage/transportation | |
| <ul style="list-style-type: none"> • 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 | 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 11 | Yes; Windows 11 IoT Enterprise (version 22H2) |
| Software | |
| Preinstalled | |
| • STEP 7 Professional (TIA Portal) | Yes; software version: V19 |
| • STEP 7 | Yes; Professional 2021 SR2 |
| • WinCC flexible Advanced 2008 | No |
| • WinCC Advanced (TIA Portal) | Yes; software version: V19 |
| • 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 |
| Approvals / Certificates | |
| General Product Approval | Maritime application |



[Miscellaneous](#)



Environment

[Environmental Confirmations](#)

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