

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 (1x32 GB) 2 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; preinstalled with SIMATIC SW V19 STEP 7 & WinCC & Safety in TIA Portal: STEP 7 Professional V20, WinCC Advanced V20, Safety Advanced V20 V19

| 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 <sup>2</sup>                                 |
| 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® Xe® 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  |
| • 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   |
| <b>Video interfaces</b>   |  |
| • 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  |
| <b>Industrial Ethernet</b>  |  |
| • 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  |
| • IAMT (Intel Active Management Technology)   | Yes  |
| <b>WLAN</b>   |  |
| • Type  | IEEE802.a/b/g/n/ac R2/ax R2(PreStandard)   |
| <b>Interrupts/diagnostics/status information</b>                                      |  |
| LED status display  | 4 status LEDs  |
| <b>EMC</b>  |  |
| <b>Interference immunity against discharge of static electricity</b>                  |  |
| • 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  |
| <b>Interference immunity to cable-borne interference</b>                              |  |
| • 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) |
| <b>Degree and class of protection</b>   |  |
| IP degree of protection   | IP30   |
| <b>Standards, approvals, certificates</b>   |  |
| CE mark   | Yes  |
| CSA approval  | Yes  |
| UL approval   | Yes  |
| DIN/ISO 9001  | Yes  |
| <b>Ecological footprint</b>   |  |
| • environmental product declaration   | Yes  |
| <b>Global warming potential</b>   |  |
| — 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   |
| <b>Ambient conditions</b>   |  |
| <b>Ambient temperature during operation</b>   |  |
| • min.  | 5 °C; Max. 10 °C/h (no condensation)   |
| • max.  | 40 °C; Max. 10 °C/h (no condensation)  |
| <b>Ambient temperature during storage/transportation</b>                              |  |
| • min.  | -20 °C; Max. 20 °C/h (no condensation)   |
| • max.  | 60 °C; Max. 20 °C/h (no condensation)  |
| <b>Relative humidity</b>  |  |
| • Operation, min.   | 5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC   |

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|--|--|
| • Operation, max.                              | 60068-2-30, IEC 60068-2-14<br>85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14 |
| <b>Vibrations</b>                              |  |
| • Operation, tested according to IEC 60068-2-6 | Yes  |
| <b>Shock testing</b>                           |  |
| • tested according to IEC 60068-2-27           | Yes  |
| • tested according to IEC 60068-2-29           | No   |
| <b>Operating systems</b>                       |  |
| Local language of operating system             | Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)                                |
| <b>pre-installed operating system</b>          |  |
| • Windows 11                                   | Yes; Windows 11 IoT Enterprise (version 22H2)  |
| <b>Software</b>                                |  |
| <b>Preinstalled</b>                            |  |
| • 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   |
| <b>Mechanics/material</b>                      |  |
| Material of housing                            | metal  |
| Handle   | Yes; retractable   |
| Socket for Kensington lock                     | Yes  |
| rubber corner guards                           | Yes  |
| <b>Dimensions</b>                              |  |
| Width  | 386 mm   |
| Height   | 41 mm  |
| Depth  | 281 mm   |
| <b>Weights</b>                                 |  |
| Weight, approx.                                | 2.8 kg; incl. rechargeable battery   |
| <b>Scope of supply</b>                         |  |
| Accumulator                                    | Yes  |
| Power supply                                   | Yes  |
| Backpack                                       | Yes  |
| SIMATIC Software                               | Yes  |
| Recovery media                                 | Yes; Restore & Recovery  |
| <b>Other</b>                                   |  |
| free hotline                                   | Yes  |
| Note:  | Made in Germany: development and production in Germany   |
| <b>Approvals / Certificates</b>                |  |
| <b>General Product Approval</b>                | <b>Environment</b>   |



[Environmental Confirmations](#)

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