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## Data sheet 6ES7730-0AB04-0BB0

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™ i5 -12600HE processor (16 threads, 18M cache, up to 4.50 GHz) Intel® Iris® Xe graphics eligible 32 GB DDR5 SDRAM SO-DIMM (1x32GB) 512 GB 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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