

SIMATIC Field PG M6 Advanced; i7-8850H (2.6 to 4.3 GHz; 6 kernels + hyper-threading; 9 MB Smart Cache); 15.6" display; Full HD (1920x 1080); WLAN 802.11ac & Bluetooth V5.0; DVD +/-RW; UHD Graphics 630; 1x 16 GB DDR4 SDRAM SO-DIMM; 2 TB SSD SATA (2.5"); without S5 interface, without S5-EPROMMER Line cable with power plug; USA; Keyboard: QWERTZ/QWERTY; without NVME (M.2); Windows 10 IoT Enterprise (Version 1903), 64-bit; license for STEP 7 Professional; WinCC Advanced; Safety Advanced; version of the pre-installed and licenses V16 including SINEMA RC Client 2.0

| General information                 |  |
|-------------------------------------|--|
| Design of the programming device    | Notebook   |
| Display                             |  |
| Design of display                   | 15.6" full HD display in 16:9 format   |
| 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                    |  |
| Keyboard                            |  |
| • Design                            | QWERTZ/QWERTY or AZERTY (French); 87 keys  |
| Touch operation                     |  |
| • Integrated touch pad              | Yes; Clickpad  |
| Supply voltage                      |  |
| Design of the power supply          | External wide-range power supply; 3-pole   |
| 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                      | Intel Core i5-8400H (2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) |
| Chipset                             | Intel CM246  |
| Hyper-threading                     | Yes  |
| Turbo Boost Technology 2.0          | Yes  |
| Graphic                             |  |
| Graphics controller                 | Intel® UHD Graphics 630  |
| Drives                              |  |
| SSD                                 | Yes; Easy to replace   |
| • Memory capacity                   | 256 Gbyte; Up to 2 TB SSD  |
| TPM Security Chip                   | Yes; 2.0 (version for China without TPM)   |
| Storage                             |  |
| Type of memory                      | DDR4 SO-DIMM   |
| Work memory                         |  |
| • Number of slots                   | 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB   |
| Accumulator                         |  |
| Replaceable                         | Yes; Lithium-ion battery   |
| Capacity                            | 8.25 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; 25-pin socket   |
| Number of USB interfaces  | 4  |
| • Type A  | 3; 1x USB port incl. integrated charging function for USB devices (e.g. smartphone) - also with device switched off  |
| • Type C  | 1; USB 3.1 Gen. 2  |
| Number of chip-card readers   | 1; Smart Card Reader (ISO/IEC 7816)  |
| Bluetooth radio standard  | Yes; V5.0  |
| 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  | Yes; Audio socket for 3.5 mm jack  |
| <b>Video interfaces</b>   |  |
| • analog video signal (VGA)   | Yes; via adapter from DVI to VGA   |
| • DVI-I   | Yes; 1x  |
| • DisplayPort   | Yes; 1x  |
| <b>Industrial Ethernet</b>  |  |
| • Industrial Ethernet interface   | 2x Ethernet (RJ45)   |
| — 100 Mbps  | Yes  |
| — 1000 Mbps   | Yes  |
| • Wake on LAN   | Yes  |
| • IAMT (Intel Active Management Technology)   | Yes  |
| <b>WLAN</b>   |  |
| • Type  | 802.11ac   |
| <b>Interrupts/diagnostics/status information</b>                                      |  |
| LED status display  | Battery status, device status, access to HDD/DVD, access to SD/MMC, MPI/DP, S5 and S7 modules / Card Reader (except Smart Card Reader), Num Lock, Caps Lock, WLAN active                         |
| <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>Standards, approvals, certificates</b>   |  |
| CE mark   | Yes  |
| CSA approval  | Yes  |
| UL approval   | Yes  |
| DIN/ISO 9001  | Yes  |
| <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 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   |
| <b>Vibrations</b>   |  |
| • Operation, tested according to IEC 60068-2-6  | Yes  |
| <b>Shock testing</b>  |  |
| • tested according to IEC 60068-2-27  | Yes  |
| <b>Operating systems</b>  |  |
| 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 22H2)                              |
| <b>Software</b>                    |  |
| Preinstalled                       |  |
| • STEP 7 Professional (TIA Portal) | Yes; software version: V16   |
| • STEP 7                           | Yes; Professional 2017 SR2   |
| • WinCC flexible Advanced 2008     | Yes; Software version: SP5   |
| • WinCC Advanced (TIA Portal)      | Yes; software version: V16   |
| • STEP 5                           | Yes; Optional; software version: STEP 5 V7.23 HF2 (incl. GRAPH 5/II V7.15) |
| <b>Mechanics/material</b>          |  |
| Material of housing                | metal  |
| Handle                             | Yes; retractable   |
| Socket for Kensington lock         | Yes  |
| rubber corner guards               | Yes  |
| <b>Dimensions</b>                  |  |
| Width                              | 385 mm   |
| Height                             | 53 mm  |
| Depth                              | 275 mm   |
| <b>Weights</b>                     |  |
| Weight, approx.                    | 3.4 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>Classifications</b>             |  |

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 14      | 19-20-05-03    |
| eClass | 12      | 19-20-05-03    |
| eClass | 9.1     | 19-20-05-03    |
| eClass | 9       | 19-20-05-03    |
| eClass | 8       | 19-20-05-03    |
| eClass | 7.1     | 27-24-22-10    |
| eClass | 6       | 27-24-22-10    |
| ETIM   | 10      | EC001418       |
| ETIM   | 9       | EC001418       |
| ETIM   | 8       | EC001418       |
| ETIM   | 7       | EC001418       |

**Approvals / Certificates**

**General Product Approval**



[Miscellaneous](#)



[Confirmation](#)



|                          |     |                   |                      |
|--------------------------|-----|-------------------|----------------------|
| General Product Approval | EMV | Test Certificates | Maritime application |
|--------------------------|-----|-------------------|----------------------|



[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



|                      |       |
|----------------------|-------|
| Maritime application | other |
|----------------------|-------|



[Miscellaneous](#)



|       |             |
|-------|-------------|
| other | Environment |
|-------|-------------|

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