

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 SD-RAM SO-DIMM; 512 GB SSD SATA (2.5"); without S5 interface, without S5-EPROMMER Line cable with power plug: USA; Keyboard: QWERTZ/QWERTY; without NVME (M.2); Windows 11 IoT Enterprise (version 22H2) 64-bit; with USB flash drive (restore image; D&D) license for STEP 7 Professional; WinCC Advanced; Safety Advanced; version of the preinstalled software and licenses V18

| 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 fonts                      |                                                                                                                                                                |
| • 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)                                                                                                                       |
| Memory                              |                                                                                                                                                                |
| 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)                                                                                            |
| <b>pre-installed operating system</b>                                                 |                                                                                                                                                                                                  |
| • Windows 10                                                                          | Yes; Windows 10 Enterprise 64-bit                                                                                                                                                                |
| <b>Software</b>                                                                       |                                                                                                                                                                                                  |

|                                    |                                                                            |
|------------------------------------|----------------------------------------------------------------------------|
| <b>Preinstalled</b>                |                                                                            |
| • 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                     |

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