

SIMATIC Field PG M6 Advanced; i7-8850H (2.6 up to 4.3 GHz; 6 Cores+ Hyper-Threading; 9 MB Smart Cache); 15.6" Display; Full HD (1920x 1080); WLAN 802.11ac & Bluetooth V5.0; DVD +/-RW; UHD Graphics 630; 2x 16 GB DDR4 SD-RAM SO-DIMM; 256 GB SSD SATA (2.5"); without S5 interface, without S5-EPROMMER Power cable with power plug; Europe; Keyboard: QWERTZ/QWERTY (Germany); Windows 10 Enterprise (Version 1803), 64 bit; License for STEP 7 Professional V15.1; WinCC Advanced V15.1; Safety Advanced V15.1; Version of the software V15.1.0.0

| 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 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                                                                                                                                           |
| <b>Graphic</b>                              |                                                                                                                                               |
| Graphics controller                         | Intel® UHD Graphics 630                                                                                                                       |
| <b>Drives</b>                               |                                                                                                                                               |
| 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)                                                                                                      |
| <b>Memory</b>                               |                                                                                                                                               |
| Type of memory                              | DDR4-SDRAM SO-DIMM                                                                                                                            |
| <b>Work memory</b>                          |                                                                                                                                               |
| • Number of slots                           | 2; Can be equipped with 1x 8 GB, 1x 16 GB or 2x 16 GB                                                                                         |
| <b>Accumulator</b>                          |                                                                                                                                               |
| Replaceable                                 | Yes; Lithium-ion battery                                                                                                                      |
| Capacity                                    | 8.25 A·h                                                                                                                                      |
| <b>Interfaces</b>                           |                                                                                                                                               |
| PROFIBUS/MPI                                | 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

## Integrated Functions

### Monitoring functions

- Status LEDs

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

## EMC

### Interference immunity against discharge of static electricity

- Interference immunity against discharge of static electricity acc. to IEC 61000-4-2

Yes;  $\pm 4$  kV contact discharge acc. to IEC 61000-4-2, ESD;  $\pm 8$  kV air discharge acc. to IEC 61000-4-2, ESD

### Interference immunity to cable-borne interference

- Interference immunity on supply cables
- Interference immunity on signal cables

$\pm 2$  kV (according to IEC 61000-4-4, burst);  $\pm 1$  kV (according to IEC 61000-4-5, surge pulse/line to line);  $\pm 2$  kV (according to IEC 61000-4-5, surge pulse/line to ground)  
 $\pm 1$  kV (according to IEC 61000-4-4, burst, length < 30 m);  $\pm 2$  kV (according to IEC 61000-4-4, burst, length > 30 m);  $\pm 2$  kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m)

## Standards, approvals, certificates

CE mark

Yes

CSA approval

Yes

UL approval

Yes

DIN/ISO 9001

Yes

## Ambient conditions

### Ambient temperature during operation

- min.
- max.

5 °C; Max. 10 °C/h (no condensation)

40 °C; Max. 10 °C/h (no condensation)

### Ambient temperature during storage/transportation

- min.
- max.

-20 °C; Max. 20 °C/h (no condensation)

60 °C; Max. 20 °C/h (no condensation)

### Relative humidity

- Operation, min.
- Operation, max.

5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14

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

## Operating systems

Additional info on operating system

Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)

|                                    |                                                                            |
|------------------------------------|----------------------------------------------------------------------------|
| pre-installed operating system     |                                                                            |
| • Windows 10                       | Yes; Windows 10 Enterprise 64-bit                                          |
| Software                           |                                                                            |
| Preinstalled                       |                                                                            |
| • STEP 7 Professional (TIA Portal) | Yes; Software version: V15.1                                               |
| • STEP 7                           | Yes; Professional 2017 SR1                                                 |
| • WinCC flexible Advanced 2008     | Yes; Software version: SP5                                                 |
| • WinCC Advanced (TIA Portal)      | Yes; Software version: V15.1                                               |
| • STEP 5                           | Yes; Optional; software version: STEP 5 V7.23 HF2 (incl. GRAPH 5/II V7.15) |
| Mechanics/material                 |                                                                            |
| Material of housing                | metal                                                                      |
| Handle                             | Yes; retractable                                                           |
| Socket for Kensington lock         | Yes                                                                        |
| rubber corner guards               | Yes                                                                        |
| Dimensions                         |                                                                            |
| Width                              | 385 mm                                                                     |
| Height                             | 53 mm                                                                      |
| Depth                              | 275 mm                                                                     |
| Weights                            |                                                                            |
| Weight, approx.                    | 3.4 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                     |
| last modified:                     | 05/30/2019                                                                 |