

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; 2 TB 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)	
<ul style="list-style-type: none"> <li>Horizontal image resolution</li> </ul>	1 920 Pixel
<ul style="list-style-type: none"> <li>Vertical image resolution</li> </ul>	1 080 Pixel
General features	
<ul style="list-style-type: none"> <li>Non-reflecting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Luminance</li> </ul>	300 cd/m <sup>2</sup>
Backlighting	
<ul style="list-style-type: none"> <li>Type of backlighting</li> </ul>	LED
Control elements	
Keyboard fonts	
<ul style="list-style-type: none"> <li>Design</li> </ul>	QWERTZ/QWERTY or AZERTY (French); 87 keys
Touch operation	
<ul style="list-style-type: none"> <li>Integrated touch pad</li> </ul>	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	
<ul style="list-style-type: none"> <li>permissible range, lower limit</li> </ul>	47 Hz
<ul style="list-style-type: none"> <li>permissible range, upper limit</li> </ul>	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  $\pm 2$  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)
- Interference immunity on signal cables  $\pm 1$  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. 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

- 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

## Operating systems

Additional info on operating system	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
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## 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
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## 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
<b>last modified:</b>	08/09/2019