

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; 2 TB SSD SATA (2.5"); with S5 interface, with S5-EPROMMER; incl. STEP 5 license; incl. S5-AG cable and EPROM adapter; Power cable with power plug: Europe; Keyboard: QWERTZ/QWERTY (Germany); without NVME (M.2); without operating system; License for STEP 7 Professional V16; WinCC Advanced V16; Safety Advanced V16; SINEMA RC Client 2.0; Version of software V16.0.0.0

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 ²
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
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Drives

SSD	Yes; Easy to replace
<ul style="list-style-type: none"> • Memory capacity 	256 Gbyte
TPM Security Chip	Yes; 2.0 (version for China without TPM)

Memory

Work memory	
<ul style="list-style-type: none"> • Number of slots 	2

Accumulator

Replaceable	Yes; Lithium-ion battery
Capacity	8.25 A·h

Interfaces

Number of interfaces PROFIBUS DP	1
Number of RS 232 interfaces	1; 25-pin socket
Number of USB interfaces	4
<ul style="list-style-type: none"> • Type A 	3; 1x USB port incl. integrated charging function for USB devices (e.g. smartphone) - also with device switched off
<ul style="list-style-type: none"> • 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

Video interfaces

<ul style="list-style-type: none"> • analog video signal (VGA) 	Yes; via adapter from DVI to VGA
<ul style="list-style-type: none"> • DVI-I 	Yes; 1x
<ul style="list-style-type: none"> • DisplayPort 	Yes; 1x

Industrial Ethernet

<ul style="list-style-type: none"> • Industrial Ethernet interface 	2x Ethernet (RJ45)
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — 100 Mbps 	Yes
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — 1000 Mbps 	Yes
<ul style="list-style-type: none"> • Wake on LAN 	Yes
<ul style="list-style-type: none"> • IAMT (Intel Active Management Technology) 	Yes

WLAN

<ul style="list-style-type: none"> • Type 	802.11ac
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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

Interference immunity to cable-borne interference

- 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)

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

pre-installed operating system

- Windows 10 Yes; Windows 10 Enterprise 64-bit

Software

Preinstalled

- STEP 7 Professional (TIA Portal) Yes
- STEP 7 Yes
- WinCC flexible Advanced 2008 Yes; Software version: SP5
- WinCC Advanced (TIA Portal) Yes

• 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
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