

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 Combo (V15.1 & 2017 SR1); WinCC Advanced combo (V15.1 & WinCC flex. 2008 SP8); Safety Advanced Combo (V15.1 & Distr. Safety 5.4 SP5) 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 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	
Hyper-threading	Yes
Turbo Boost Technology 2.0	Yes

Drives	
SSD	Yes; Easy to replace
• Memory capacity	256 Gbyte
TPM Security Chip	Yes; 2.0 (version for China without TPM)
Memory	
Type of memory	DDR4-SDRAM SO-DIMM
Work memory	
• Number of slots	2; Can be equipped with 1x 8 GB, 1x 16 GB or 2x 16 GB
Accumulator	
Replaceable	Yes; Lithium-ion battery
Capacity	8.25 A·h
Interfaces	
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
Number of chip-card readers	1; Smart Card Reader (ISO/IEC 7816)
Bluetooth radio standard	Yes
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	
• analog video signal (VGA)	Yes; via adapter from DVI to VGA
• DVI-I	Yes; 1x
• DisplayPort	Yes; 1x
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
• Wake on LAN	Yes
• IAMT (Intel Active Management Technology)	Yes
WLAN	
• 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

Interference immunity to cable-borne interference

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

±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.
- 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

Software

Preinstalled	
• STEP 7 Professional (TIA Portal)	Yes
• STEP 7	Yes
• WinCC flexible Advanced 2008	Yes
• 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
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:	03/13/2019