

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 SDRAM SO-DIMM; 512 GB SSD SATA (2.5"); without S5 interface, without S5-EPROMMER Without line cable; Keyboard: QWERTZ/QWERTY; 512 GB SSD NVME (M.2); Windows 10 IoT Enterprise (Version 1903), 64-bit; license for STEP 7 Professional; WinCC Advanced; Safety Advanced; version of the pre-installed and licenses V16 including SINEMA RC Client 2.0

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
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
<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 <ul style="list-style-type: none"> — 100 Mbps — 1000 Mbps 	2x Ethernet (RJ45) Yes 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
Interrupts/diagnostics/status information	
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
EMC	
Interference immunity against discharge of static electricity	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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)
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • min. 	5 °C; Max. 10 °C/h (no condensation)
<ul style="list-style-type: none"> • max. 	40 °C; Max. 10 °C/h (no condensation)
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> • min. 	-20 °C; Max. 20 °C/h (no condensation)
<ul style="list-style-type: none"> • max. 	60 °C; Max. 20 °C/h (no condensation)
Relative humidity	
<ul style="list-style-type: none"> • Operation, min. 	5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • Operation, tested according to IEC 60068-2-6 	Yes
Shock testing	
<ul style="list-style-type: none"> • tested according to IEC 60068-2-27 	Yes
Operating systems	
Local language of operating system	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
pre-installed operating system	
<ul style="list-style-type: none"> • Windows 10 	Yes; Windows 10 IoT Enterprise 2021 LTSC
<ul style="list-style-type: none"> • Windows 11 	Yes; Windows 11 IoT Enterprise (version 22H2)

Software			
Preinstalled			
• 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)		
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		
Classifications			
		Version	Classification
	eClass	14	19-20-05-03
	eClass	12	19-20-05-03
	eClass	9.1	19-20-05-03
	eClass	9	19-20-05-03
	eClass	8	19-20-05-03
	eClass	7.1	27-24-22-10
	eClass	6	27-24-22-10
	ETIM	9	EC001418
	ETIM	8	EC001418
	ETIM	7	EC001418

Approvals / Certificates

General Product Approval

[Miscellaneous](#)

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