SIEMENS

Data sheet

6ES7718-1CC00-0CC3

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 32 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); without NVME (M.2); Windows 11 IoT Enterprise (version 22H2) 64-bit; without USB flash drive (restore image; D&D) license for STEP 7 Professional Combo; WinCC Advanced Combo (TIA Portal & WinCC flexible); Safety Advanced Combo (TIA Portal & Distributed Safety); version of the preinstalled software and licenses V18

Design of the programming device Display Design of display 15.6" full HD display in 16.9 format Resolution (pixels) • Horizontal image resolution • Vertical image resolution • Vertical image resolution • Vertical image resolution 1 980 pixel • Non-reflecting • Non-reflecting • Luminance Backlighting • Type of backlighting • Design of the power supply External wide-range power supply; 3-pole Design of the power supply External wide-range power supply; 3-pole Design of the power supply External wide-range power supply; 3-pole Design of the power supply External wide-range power supply; 3-pole Design of the power supply External wide-range power supply; 3-pole Design of the power supply Design of the power supply; 3-pole Design of the power supply Type of manual type time! • Processor Processor type Intel Core Is-8400H (2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) Type of the power supply and the power supply; 3-pole Cache) or Type Seb Or (2.5 to 4.3 GHz 6 cores and hyper-threading, 8 MB Smart Cache) Type of the power supply and the power supply; 3-pole Type of the power supply; 3-pol	General information	
Design of display Resolution (pixels) + Horizontal image resolution • Vertical image resolution • Vertical image resolution • Vertical image resolution • Vertical image resolution • Non-reflecting • Luminance • Non-reflecting • Type of backlighting • Type of backlighting • Type of backlighting • Type of backlighting • Design • QWERTZ/QWERTY or AZERTY (French): 87 keys Touch operation • Integrated touch pad • Yes; Clickpad Supply vortage Design of the power supply permissible range, lower limit (AC) permissible range, lower limit (AC) permissible range, lower limit (AC) • permissible range, lower limit • permissible range, upper limit • Sa Hz Processor type Intel Cove I6-8400H (2.5 to 4.2 GHz, 4 coves and hyper-threading, 8 MB Smart Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Frocessor type Intel Cove I6-8400H (2.5 to 4.2 GHz, 4 coves and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Frocessor type Intel Cove I6-8400H (2.5 to 4.2 GHz, 4 coves and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) Cache) or 17-8650H (2.6 to	Design of the programming device	Notebook
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Type of backlighting 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 ½; ±10 %, sinusoidal Line frequency ● permissible range, lower limit (AC) 240 ½; ±10 %, sinusoidal Line frequency ● permissible range, upper limit (AC) 25 keys (AC) Processor Processor type Intel Core 15-9400H (2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or 17-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (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 Graphic Graphics controller Drives SSD Pres: 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 Vork memory • Number of slots Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A h	• Luminance	300 cd/m²
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permissible range, lower limit (AC) permissible range, upper limit (AC) Line frequency • permissible range, lower limit • permissible range, lower limit • permissible range, lower limit • permissible range, upper limit • permissible range, lower lawer law	Supply voltage	
permissible range, upper limit (AC) Line frequency • permissible range, lower limit • permissible range, upper limitedes of the permission of the	Design of the power supply	External wide-range power supply; 3-pole
Line frequency • permissible range, lower limit • permissible range, upper limit Frocessor 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 Graphic Graphic Graphic Graphics controller Intel® UHD Graphics 630 Prives SSD Yes; Easy to replace • Memory capacity Type Security Chip Yes; 2.0 (version for China without TPM) Memory Type of memory Work memory • Number of slots Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A-h	permissible range, lower limit (AC)	100 V; ±10 %, sinusoidal
Permissible range, lower limit Processor 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 Graphic Graphics controller Intel® UHD Graphics 630 Prives SSD Yes; Easy to replace Memory capacity Type of memory Work memory Norm memory Number of slots Accumulator Replaceable Yes; Lithium-ion battery Capacity At 2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or i7-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) Processor type Proce	permissible range, upper limit (AC)	240 V; ±10 %, sinusoidal
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 Graphic Graphic SSD Yes; Easy to replace Memory capacity Yes; 2.0 (version for China without TPM) Memory Type of memory Work memory Number of slots Accumulator Replaceable Yes; Lithium-ion battery Reglaceable Yes; Lithium-ion battery	Line frequency	
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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 Graphic Graphic scontroller 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 Accumulator Replaceable Yes; Lithium-ion battery 8.25 A·h	 permissible range, upper limit 	63 Hz
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Turbo Boost Technology 2.0 Graphic Graphic 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	Chipset	Intel CM246
Graphic Graphics controller Drives SSD Memory capacity TPM Security Chip Yes; 2.0 (version for China without TPM) Memory Type of memory Number of slots Accumulator Replaceable Yes; Lithium-ion battery Intel® UHD Graphics 630 Yes; Easy to replace 256 Gbyte; Up to 2 TB SSD Yes; 2.0 (version for China without TPM) DDR4 SO-DIMM 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB	Hyper-threading	Yes
Graphics controller Intel® UHD Graphics 630 Drives 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 DDR4 SO-DIMM Work memory DDR4 SO-DIMM Work memory 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Yes; Lithium-ion battery Capacity 8.25 A·h	Turbo Boost Technology 2.0	Yes
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 Pumber 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	Graphic	
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TPM Security Chip Yes; 2.0 (version for China without TPM) Memory Type of memory ● Number of slots Accumulator Replaceable Capacity Yes; 2.0 (version for China without TPM)	SSD	Yes; Easy to replace
Memory Type of memory DDR4 SO-DIMM Work memory	 Memory capacity 	256 Gbyte; Up to 2 TB SSD
Type of memory Work memory ● Number of slots Accumulator Replaceable Capacity DDR4 SO-DIMM 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Yes; Lithium-ion battery 8.25 A·h	TPM Security Chip	Yes; 2.0 (version for China without TPM)
Work memory ● Number of slots 2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Capacity Yes; Lithium-ion battery 8.25 A·h	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	Type of memory	DDR4 SO-DIMM
Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h	Work memory	
Replaceable Yes; Lithium-ion battery Capacity 8.25 A·h	Number of slots	2; can be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB
Capacity 8.25 A·h	Accumulator	
	Replaceable	Yes; Lithium-ion battery
Interfaces	Capacity	8.25 A·h
	Interfaces	

Number of interfaces DDOEIDLIS DD	1: 1v PROFIRIS DR / MDI: 0 pin Sub D cooket: 0.6 kBoud to 40 MBoud
Number of interfaces PROFIBUS DP Number of RS 232 interfaces	1; 1x PROFIBUS DP / MPI; 9-pin Sub-D socket; 9.6 kBaud to 12 MBaud
Number of RS 232 Interfaces Number of USB interfaces	1; 25-pin socket
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
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
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	
 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	15 5, max. 10 on the condensation)
min.	-20 °C; Max. 20 °C/h (no condensation)
	60 °C; Max. 20 °C/h (no condensation)
• max.	60 G, Max. 20 G/II (110 condensation)
Relative humidity	F 0/ At 20 °C/h (no condensation). Testad according to IFO 00000 0. To IFO
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. Vibrations	85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
Vibrations	V
Operation, tested according to IEC 60068-2-6	Yes
Shock testing	
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)

Windows 10	Yes; Windows 10 Enterprise 64-bit
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

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