SIEMENS

Data sheet

6ES7718-1CB00-1BC1

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; 512 GB SSD SATA (2.5"); without S5 interface, without S5-EPROMMER Power cable with power plug: Europe; Keyboard: QWERTZ/QWERTY (Germany); 512 GB SSD NVME (M.2); Windows 10 IoT Enterprise 2019 LTSC, 64-bit; License for STEP 7 Professional Combo (V16 & 2017 SR1); WinCC Advanced Combo (V16 & WinCC flex. 2008 SP5); Safety Advanced Combo (V16 & Distr. Safety 5.4 SP5); SINEMA RC Client 2.0; Version of software V16.0.0.0

Design of the programming device Display Design of display Resolution (pixels) Horzontal image resolution Vertical image resolution 1 920 pixel Vertical image resolution 1 920 pixel Vertical image resolution 1 080 pixel General features Non-reflecting Ves Luminance 300 cd/m² Backlighting Type of backlighting Type of 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) permissible range, upper limit (AC) 100 V; ±10 %, sinusoidal permissible range, upper limit (AC) permissible range, upper limit (AC) permissible range, upper 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 Yes Turbo Boost Technology 2.0 Yes SSD Memory capacity Text Ses Supply SSD Yes: Easy to replace SSD Memory capacity Text SSD Yes: Easy to replace SSD Memory capacity Text SSD Yes: Easy to replace SSD Memory capacity Type of memory DDR4 SO-DIMM Work memory Number of slots 2; Can be equipped with 1x 8 GB, 1x 16 GB or 2x 16 GB	General information	
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Design of display Resolution (pixels) Horizontal image resolution Vertical image resolution 1 920 pixel Non-reflecting Luminance 300 cd/m² Backlighting Type of backlighting Design of the power supply Design of the pow	Display	
Resolution (pixels)		15.6" full HD display in 16:9 format
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• permissible range, lower limit • permissible range, upper limit • Sa 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 Graphic Graphics controller Intel® UHD Graphics 630 Prives SSD • Memory capacity • See Easy to replace • Memory capacity • Memory Type of memory Type of memory DDR4 SO-DIMM Work memory • Number of slots 2; Can be equipped with 1x 8 GB, 1x 16 GB or 2x 16 GB	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 Hyper-threading Yes Turbo Boost Technology 2.0 Graphic Graphic Graphics controller Intel® UHD Graphics 630 Drives SSD Yes; Easy to replace Memory capacity Yes; 2.0 (version for China without TPM) Memory Type of memory DDR4 SO-DIMM Work memory Number of slots Processor type Intel® Core i5-8400H (2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) Intel® Core i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) Intel® Core i7-8850H (2.6 to 4.3 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) Intel® Core i7-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) Yes Graphic Graphi	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 Turbo Boost Technology 2.0 Graphic Graphic Graphics controller Intel® UHD Graphics 630 Drives SSD Yes; Easy to replace • Memory capacity Tyes; 2.0 (version for China without TPM) Memory Type of memory DDR4 SO-DIMM Work memory • Number of slots Intel® COPIE is 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) Intel® COPIE is 4.3 GHz 6 cores and hyper-threading, 8 MB Smart Cache) Yes SMB Smart Cache) Intel® CM246 Yes Yes Craphics Craphics 630 Yes; Easy to replace 256 Gbyte; Up to 2 TB SSD TPM Security Chip Yes; 2.0 (version for China without TPM)	 permissible range, upper limit 	63 Hz
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 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 or 2x 16 GB	Processor	
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SSD Memory capacity ≥ 56 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 or 2x 16 GB	Graphics controller	Intel® UHD Graphics 630
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Work memory ● Number of slots 2; Can be equipped with 1x 8 GB, 1x 16 GB or 2x 16 GB		DDR4 SO-DIMM
Number of slots 2; Can be equipped with 1x 8 GB, 1x 16 GB or 2x 16 GB		
· · · ·	•	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	
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
• 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	,
• min.	-20 °C; Max. 20 °C/h (no condensation)
• max.	60 °C; Max. 20 °C/h (no condensation)
Relative humidity	55 5, Max. 25 on (15 condensation)
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	
Local language of operating system	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
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: 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

last modified:

2/15/2021