SIEMENS

Data sheet

6ES7718-1DC00-2FC3

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; 2x 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); 1 TB SSD NVME (M.2); Windows 10 IoT Enterprise 2021 LTSC, 64-bit; with 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)	General information	
Design of display Resolution (pixels) - Horizontal image resolution - Vertical image resolution - Non-reflecting - Luminance - Non-reflecting - Type of backlighting - Type of backlighting - Type of backlighting - Type of backlighting - Design - Ower Tz/QWERTY or AZERTY (French): 87 keys - Touch operation - Integrated touch pad - Integrated fouch pad - Integrated fouch pad - Pesign of the power supply - Design of the power supply - Permissible range, (lower limit (AC) - permissible range, (lower limit (AC) - permissible range, (lower limit (AC) - permissible range, (lower limit - 63 Hz - Processor - Processor type - Intel Core IS-840DH (2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or 17-8550H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) - Cache) or 17-8550H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) - Cache) - Cripset - Hyper-threading - Yes - Turbo Boost Technology 2.0 - Yes - Caraphics - Caraphics - Caraphics - Caraphics controller - Drivos - SSD - Yes: Easy to replace - Memory capacity - Type of memory - Work memory - Yes (2 on he equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB - Accumulator - Replaceable - Yes, Lithium-ion battery - Capacity - Sc Art Cache) - Capacity - Sc Art Cache) - Capacity - Sc Caraphics - Cache) - Cachel - Capacity - Sc Cachel - Capacity - Sc Cachel - Yes, Lithium-ion battery - Capacity - Sc Capacity - Sc Cachel - Yes, Lithium-ion battery - Capacity - Sc Capacity - Sc Cachel - Yes, Lithium-ion battery - Capacity - Sc Capacity - Sc Cachel - Yes, Lithium-ion battery - Capacity - Sc Cachel - Yes, Lithium-ion battery - Capacity - Sc Cachel - Yes Cachel - Yes, Lithium-ion battery - Capacity - Yes Capacity - Yes Cachel - Yes Lithium-ion battery - Cachel - Yes Lithium-ion battery - Yes Cachel - Y	Design of the programming device	Notebook
Resolution (pixels)	Display	
Horizontal image resolution Vertical image resolution 1 920 pixel Vertical image resolution 1 1 980 pixel Non-reflecting Non-reflecting Ves Luminance 300 cd/m² Backlighting Type of backlighting Type of backlighting Type of backlighting UED Control elements Reyboard fonts Design QWERTZ/QWERTY or AZERTY (French): 87 keys Touch operation Integrated touch pad Ves; Clickpad Supply voltage Design of the power supply External wide-range power supply; 3-pole permissible range, Lower limit (AC) permissible range, Lower limit (AC) 100 V; ±10 %, sinusoidal Uniferequency permissible range, lower limit (AC) 100 V; ±10 %, sinusoidal Line frequency permissible range, lower limit A7 HZ permissible range, upper limit A7 HZ permissible range, upper limit A7 HZ permissible range, lower limit A7 HZ permissible range, lower limit A7 HZ Processor 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) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 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 4.3	Design of display	15.6" full HD display in 16:9 format
e- Vertical image resolution General features • Non-reflecting • Luminance Backlighting • Type of backlighting • Type of backlighting • Type of backlighting • Design • Design Guerral deut touch pad • Type of backlighting • Design Touch operation • Integrated touch pad • Type your stage Design of the power supply External wide-range power supply; 3-pole permissible range, lower limit (AC) permissible range, upper limit (AC) 100 ∨: ±10 %, sinusoidal permissible range, upper limit (AC) 100 ∨: ±10 %, sinusoidal Processor Processor Processor Processor type Intel Cave 15-8400H (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) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.5 GHz 6 cores and	Resolution (pixels)	
Non-reflecting	 Horizontal image resolution 	1 920 pixel
Non-reflecting Luminance Backlighting Type of backlighting Type of backlighting Type of backlighting Type of backlighting EED Control elements Keyboard fonts Design QWERTZ/QWERTY or AZERTY (French): 87 keys Touch operation Integrated touch pad Yes; Clickpad Supply votage 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) Line frequency permissible range, lower limit permissible range, upper limit for the permissible range, upper limit permissible range, upper limit permissible range, upper limit permissible range, upper limit Processor Processor type Intel Core I5-8400H (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) Chipset Hyper-threading Yes Turbo Boost Technology 2.0 Yes Graphic Graphic Sontroller Intel® UHD Graphics 630 Drives SSD Yes; Easy to replace SSD Yes; Easy to replace SSD Yes; Easy to replace 1 Intel® UHD Graphics 630 Trype of memory Yes; Clickpad Type of memory DDA SO-DIMM Memory Prope of memory DRA SO-DIMM Memory Number of slots President State of State GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery S25 GA+h	Vertical image resolution	1 080 pixel
■ Luminance Backlighting ■ Type of backlighting ■ Type of backlighting ■ UED Control cloments Keyboard fonts ■ Design QWERTZ/QWERTY or AZERTY (French); 87 keys Touch operation ■ Integrated touch pad Supply voltage Design of the power supply permissible range, lower limit (AC) permissible range, upper limit (AC) permissible range, upper limit (AC) Processor Frocessor type Intel Core I5-8400H (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, 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) 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) 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) 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) 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) or 17-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.3 GHz, 6 to 4.3 GHz, 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.6 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or 17-8850H (2.6 to 4.3 GHz, 6	General features	
# Type of backlighting # Type of backlighting # Type of backlighting # Type of backlighting # Design # Design # OWERTZ/QWERTY or AZERTY (French); 87 keys # Design # Ower of the grated touch pad # Ves; Clickpad # Supply voltage # Design of the power supply # Design of the power supple # Design of the power supple # Design of the power supple # Design o	 Non-reflecting 	Yes
• 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 V; ±10 %, sinusoidal Line frequency • permissible range, lower limit 63 Hz Processor Processor type Integrated touch and Yes Cache) or 17-8850H (2.5 to 4.2 GHz, 4 cores and hyper-threading, 8 MB Smart Cache) or 17-8850H (2.5 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or 17-8850H (2.5 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 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	Luminance	300 cd/m ²
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 permissible range, lower limit (AC) permissible range, upper limit (AC) permissible range, upper limit (AC) Line frequency Processor Frocessor Processor type Intel Core i5-8400H (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) Chipset Intel Core i5-8400H (2.5 to 4.2 GHz, 4 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 Core i5-8400H (2.5 to 4.2 GHz, 4 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 Core i5-8400H (2.5 to 4.2 GHz, 4 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) Cripset Intel Core i5-8400H (2.5 to 4.2 GHz, 4 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) 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) 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) 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) 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) 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) 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-th	Backlighting	
Keyboard fonts	 Type of backlighting 	LED
• Design	Control elements	
o Integrated touch pad Supply voltage Design of the power supply permissible range, lower limit (AC) permissible range, upper limit (AC) Line frequency opermissible range, upper limit permissible range, lower limit permissible range, upper limit opermissible range, upper limit operm	Keyboard fonts	
Integrated touch pad Yes; Clickpad Supply voltage Design of the power supply permissible range, lower limit (AC) permissible range, lower limit (AC) Line frequency • permissible range, lower limit • permissible range, upper limit • permissible range, upper limit • permissible range, lower limit • permissible range, lower limit • permissible range, lower limit • permissible range, upper li	Design	QWERTZ/QWERTY or AZERTY (French); 87 keys
Design of the power supply Design of the power supply permissible range, lower limit (AC) permissible range, lower limit (AC) Line frequency • permissible range, lower limit • permissible range, lower lim	Touch operation	
Design of the power supply permissible range, lower limit (AC) permissible range, lower limit (AC) 240 V; ±10 %, sinusoidal permissible range, upper limit (AC) Line frequency • permissible range, lower limit • permissible range, upper limit • 3 Hz Processor Processor V 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 SSD Ves; Easy to replace • Memory capacity Tyes (256 Gbyte; Up to 2 TB SSD TPM Security Chip Yes; 2.0 (version for China without TPM) Momory Type of memory DDR4 SO-DIMM Work memory • Number of slots Accumulator Replaceable Yes; Lithium-ion battery Replaceable Yes; Lithium-ion battery Residence implies in use of sinus and sinus in the sinus in the supply (3-pole) 100 V; ±10 %, sinusoidal 100 V; ±10 %, sinusoidal 100 V; ±10 %, sinusoidal 101 V; ±10 %, sinusoidal 102 V; ±10 %, sinusoidal 103 V; ±10 %, sinusoidal 104 V; ±10 %, sinusoidal 105 V; ±1	 Integrated touch pad 	Yes; Clickpad
permissible range, lower limit (AC) permissible range, upper limit (AC) Line frequency • permissible range, lower limit • permissible range, lower limit • permissible range, upper limited, upperprised, upp	Supply voltage	
permissible range, upper limit (AC) Line frequency • permissible range, lower limit • permissible range, upper limit • permissible range, upper limit • permissible range, upper limit • permissible range, upper limit • permissible range, upper limit • permissible range, upper limit • permissible range, upper limit • permissible range, upper limit • permissible range, upper limit • permissible range, lower lamitation, lower limitation, lower lamitation, lower	Design of the power supply	External wide-range power supply; 3-pole
Line frequency	permissible range, lower limit (AC)	100 V; ±10 %, sinusoidal
• permissible range, lower limit • permissible range, upper limit	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) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz 6 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 4.2 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 4.2 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 4.2 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 4.2 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) or i7-8850H (2.6 to 4.3 GHz, 6 to 4.2 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 6 to 4.3 GHz, 6 to 4.2 GHz, 4 cores and hyper-threading, 9 MB Smart Cache) or i7-8850H (2.6 to 4.3 GHz, 6 to 4.2 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 4.2 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	Line frequency	
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 Yes; Easy to replace • Memory capacity Yes; 2.6 (byte; Up to 2 TB SSD TPM 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 8.25 A-h	 permissible range, lower limit 	47 Hz
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 Sontroller Intel® UHD Graphics 630 Prives 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 Capacity 8.25 A·h	 permissible range, upper limit 	63 Hz
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 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	Processor	
Hyper-threading 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, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A-h	Processor type	Cache) or i7-8850H (2.6 to 4.3 GHz 6 cores and hyper-threading, 9 MB Smart
Turbo Boost Technology 2.0 Graphic Graphic Graphics controller Intel® UHD Graphics 630 Drives SSD Memory capacity Type of memory Number of slots Accumulator Replaceable Yes Yes 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 Accumulator Replaceable Yes; Lithium-ion battery Capacity 8.25 A-h	Chipset	Intel CM246
Graphic Graphics controller Drives SSD Yes; Easy to replace Memory capacity 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 Capacity Intel® UHD Graphics 630 Yes; Easy to replace 256 Gbyte; Up to 2 TB SSD Yes; 2.0 (version for China without TPM) Yes; 2.0 (version for China without TPM) Yes; Lithium-ion battery Yes; Lithium-ion battery Seplaceable Yes; Lithium-ion battery Seplaceable Seplaceable Yes; Lithium-ion battery	Hyper-threading	Yes
Graphics controller 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 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 Yes; Lithium-ion battery Capacity 8.25 A·h	Turbo Boost Technology 2.0	Yes
SSD Memory capacity Pes; Easy to replace 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 8.25 A·h	Graphic	
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, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery 8.25 A·h	Graphics controller	Intel® UHD Graphics 630
● Memory capacity 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 Capacity 256 Gbyte; Up to 2 TB SSD Yes; 2.0 (version for China without TPM) DDR4 SO-DIMM Yes and be equipped with 1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB Accumulator Replaceable Yes; Lithium-ion battery 8.25 A·h	Drives	
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	SSD	Yes; Easy to replace
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	 Memory capacity 	256 Gbyte; Up to 2 TB SSD
Type of memory 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	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 Yes; Lithium-ion battery Capacity 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 RS22 inferiors 1, 25-pin inferiors 1, 25-pin inferiors 1, 25-pin sub-U abovet, u.e. Nature of LS2 significations 1, 17-pic C Number of USB therinaces 1, 17-pic C Number of robe-card readors 1, 17-pic C Number of robe-card readors Number of robe-card rea	N. J. C. J. C. BROSINIO BR	4.4. PROFIDUO PR (MRI 0.1.0.1.D
Number of USB Interfaces • Type C • Type C • Type C Number of ribip-card readers Number of	Number of interfaces PROFIBUS DP	1; 1x PROFIBUS DP / MPI; 9-pin Sub-D socket; 9.6 kBaud to 12 MBaud
**Type A **Jup C **Jup		
**Type C 1:USB 3 (Gen. 2 Number of chip-card readers 1:Smart Card Reader (ISO/IEC 7916) Multimedia card SD card datd Ves. Vo.0 Multimedia card SD card datd 2 in 1 (SDHC UHEAL MMC) Interest Audio Jack Ves. Vo.0 Multimedia card SD card datd 2 in 1 (SDHC UHEAL MMC) Interest Audio Jack Ves. Audio Jack Ves. SMMATC memory cards (for 57-900/27/ET 200) - including programming interfaces **Ves. Audio Jack (for 67-900/27/ET 200) - including programming interfaces **Ves. Audio Jack (Ves. 1 including programming interfaces **Ves. Audio Jack (Ves. 1 including programming interfaces **Ves. Audio Jack (Ves. 1 including programming interfaces) **Ves. Audio Jack (Ves. 1 including programming interfaces) **Ves. Ves. 1 including Internet Interface **Industrial Ethernet *		
Number of chip-card readers 1, Smart Card Reader (SO/IEC 7916)	·	smartphone) - also with device switched off
Billetoth radio standard	• •	
Multimodia card/SD card slot Card reader for SIMATIC memory cards SIMATIC memory cards (fee S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-300400), SIMC (fee S7-1400), SIMATIC micro memory card (for S7-1400), SIMATIC micro m	·	
Gard reader for SIMATIC memory cards SIMATIC memory cards (fix ST-2004400). SMC (fix ST-1000). SIMAMTIC micro memory card (fix ST-2004400). Including programming interfaces Ves; Audia socket for 3.5 mm jack Ves; Va adapter from DVI to VGA • UVH • UNH • UNIPPORT • UVE; 1x • Industrial Ethernet • Industrial Ethernet Interface — 100 Mbps • Ves • 100 Mbps	Bluetooth radio standard	Yes; V5.0
Universal Audio Jack Ves. Audio socket for 3.5 mm jack Video interfaces • analog video signal (VGA) • DVI-1 • DVI-1 • DSplayPort • Noustrial Ehement Interface • Industrial Ehement Interface • Interface Interface Interface Interface Interface Interface • Interface Interf		
Ves, via adapter from DVI to VGA OV-1 ObsplayPort Ves, 1x Industrial Ethernet Interface — 100 Mbps — 100 Mbps — Yes Ves Ves Ves Ves Ves Ves Ves	Card reader for SIMATIC memory cards	
analog video signal (VGA) DVH Ves: 1x ObispiyPort Ves: 1x Obispiy	Universal Audio Jack	Yes; Audio socket for 3.5 mm jack
PUV-I DisplayPort DisplayPort DisplayPort PoisplayPort P	Video interfaces	
DisplayPort Ves; 1x Industrial Ethernet Industrial Ethernet Industrial Ethernet Interface	 analog video signal (VGA) 	Yes; via adapter from DVI to VGA
Industrial Ethernet Interface	• DVI-I	Yes; 1x
Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity and supply cables Interference immunity on	DisplayPort	Yes; 1x
	Industrial Ethernet	
Wake on LAN INAMT (Intel Active Management Technology) WEAN Type 802.11ac Interrupts/diagnostics/status information LED status display Battery status, device status, access to HDD/IDVD, access to SD/MMC, MPLDP, SS and SZ modules / Card Reader (except Smart Card Reader), Num Lock, Caps Lock, WLAN active Interference immunity against discharge of static electricity Interference immunity to cable-borne interference Interference immunity to supply cables #2 kV (according to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD; ±8 kV air	 Industrial Ethernet interface 	2x Ethernet (RJ45)
Wake on LAN Wake on LAN Wake (Inter Active Management Technology) Wild (Inter Active Management Technology) Wild (Inter Active Management Technology) Wild (Inter Active Management Technology) Wake (Inter Management Technology) Wake (Interference Interference Interferenc	— 100 Mbps	Yes
Interference immunity on supply cables Interference immunity on signal cables Inter	— 1000 Mbps	Yes
### WILAN Type	Wake on LAN	Yes
Interrupts/diagnostics/status information LED status display Battery status, device status, access to HDD/DVD, access to SD/MMC, MPUDP, S5 and S7 modules / Card Reader (except Smart Card Reader), Num Lock, Caps Lock, WLAN active Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity to active active (electricity) Interference immunity to active active (electricity) Interference immunity to active active (electricity) Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables Interference immunity on signal cables It k (according to IEC 61000-4-2, ESD, ±8 kV air discharge acc. to IEC 61000-4-2, ESD It k (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 line); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m); ±2 kV (according to I	 IAMT (Intel Active Management Technology) 	Yes
Interrupts/diagnostics/status information LED status display Battery status, device status, access to HDD/DVD, access to SD/MMC, MPIDP, S5 and S7 modules / Card Reader (except Smart Card Reader), Num Lock, Caps Lock, WLAN active Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity on signal discharge of static electricity Interference immunity to cable-borne interference Interference immunity to aspiply cables Interference immunity on supply cables Interference immunity on signal cables Interferenc	WLAN	
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 Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity to acble-borne interference Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables Interference immuni	• Type	802.11ac
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 Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity to acble-borne interference Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables Interference immuni	Interrupts/diagnostics/status information	
Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity acc. to IEC 61000-4-2, ESD Interference immunity to cable-borne interference Interference immunity to cable-borne interference Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables Interference immunity on supply subjection interference Interference immunity on supply subjection interference immunity on supply subjection interference immunity on supply subjection inter		MPI/DP, S5 and S7 modules / Card Reader (except Smart Card Reader), Num
Interference immunity against discharge of static electricity act. to IEC 61000-4-2 Interference immunity to able-borne interference Interference immunity on supply cables Interference immunity on signal cables Interference immunity on supply supply interference interference immunity on supply supply interference immunity suspection interference immunit	EMC	
electricity acc. to IEC 61000-4-2 Interference immunity to cable-borne interference • Interference immunity to cables • Interference immunity on supply cables • Interference immunity on supply cables • Interference immunity on supply cables • Interference immunity on signal cables • Interference immunity on supply subply interference inter	Interference immunity against discharge of static electricity	
surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground) **I 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); ±2 kV (according to IEC 61000-4-5, surge sym/line to ground, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym/line to ground, length > 30 m) **Standards, approvals, certificates** **CE mark** **CSA approval** **UL approval** **UL approval** **Ves** **DIN/ISO 9001* **Pes** **DIN/ISO 9001* **DIN/ISO 9001* **DIN/ISO 9001* **Pes** **DIN/ISO 9001*	Interference immunity to cable-borne interference	
Standards, approvals, certificates	Interference immunity on supply cables	surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to
CE mark CSA approval Yes UL approval Yes DIN/ISO 9001 Ambient conditions Ambient temperature during operation • min. • max. Abient temperature during storage/transportation • min. • max. Ambient temperature during storage/transportation • min. • max. Abient temperature during storage/transportation • min. • max. Abient temperature during storage/transportation • min. • max. Co °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 60068-2-30, IEC 60068-2-14 Vibrations • Operation, tested according to IEC 60068-2-6 Yes Shock testing • tested according to IEC 60068-2-7 Yes Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Interference immunity on signal cables	IEC 61000-4-4, burst, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge
CSA approval UL approval Ves DIN/ISO 9001 Ambient conditions Ambient temperature during operation • min. • max. Ambient temperature during storage/transportation • min. • max. Ambient temperature during storage/transportation • min. • max. Ambient temperature during storage/transportation • min. • max. Abo "C; Max. 10 "C/h (no condensation) • max. Ambient temperature during storage/transportation • min. • c20 "C; Max. 20 "C/h (no condensation) • max. Relative humidity • Operation, min. • Operation, min. • Operation, max. 5 %; At 30 "C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-314 Vibrations • Operation, tested according to IEC 60068-2-6 Yes Shock testing • tested according to IEC 60068-2-7 Yes Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Standards, approvals, certificates	
CSA approval UL approval Ves DIN/ISO 9001 Ambient conditions Ambient temperature during operation • min. • max. Ambient temperature during storage/transportation • min. • max. Ambient temperature during storage/transportation • min. • max. Ambient temperature during storage/transportation • min. • max. Abo "C; Max. 10 "C/h (no condensation) • max. Ambient temperature during storage/transportation • min. • c20 "C; Max. 20 "C/h (no condensation) • max. Relative humidity • Operation, min. • Operation, min. • Operation, max. 5 %; At 30 "C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-314 Vibrations • Operation, tested according to IEC 60068-2-6 Yes Shock testing • tested according to IEC 60068-2-7 Yes Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	CE mark	Yes
UL approval DIN/ISO 9001 Ambient conditions Ambient temperature during operation • min. • max. Abient temperature during storage/transportation • min. • or C; Max. 20 °C/h (no condensation) • max. Relative humidity • Operation, min. • Operation, min. • Operation, max. **Signature of the condensation of the condensa		Yes
DIN/ISO 9001 Ambient conditions Ambient temperature during operation • min. • max. Abient temperature during storage/transportation • min. • max. Abient temperature during storage/transportation • min. • min. • max. • O°C; Max. 20 °C/h (no condensation) Ambient temperature during storage/transportation • min. • max. • O°C; Max. 20 °C/h (no condensation) Felative humidity • Operation, min. • Operation, min. • Operation, max. **S %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14 • Operation, 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 60068-2-7 Yes Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)		
Ambient conditions Ambient temperature during operation • min. • max. 40 °C; Max. 10 °C/h (no condensation) Ambient temperature during storage/transportation • min. • max. 20 °C; Max. 20 °C/h (no condensation) • max. 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 60068-2-30, IEC 60068-2-30, IEC 60068-2-30, IEC 60068-2-14 • Operation, tested according to IEC 60068-2-6 Yes Shock testing • tested according to IEC 60068-2-79 • Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)		
Ambient temperature during operation • min. • max. 40 °C; Max. 10 °C/h (no condensation) 40 °C; Max. 10 °C/h (no condensation) • min. • min. • min. • min. • min. • max. 60 °C; Max. 20 °C/h (no condensation) • max. 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 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-77 Yes Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)		
 min. max. 40 °C; Max. 10 °C/h (no condensation) 40 °C; Max. 10 °C/h (no condensation) Ambient temperature during storage/transportation min. max. 60 °C; Max. 20 °C/h (no condensation) Relative humidity Operation, min. Operation, max. Operation, max. Operation, max. Operation, max. Operation, max. S%; 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 60068-2-7 Yes Operating systems Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) 		
 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 Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) 		5 °C: Max 10 °C/h (no condensation)
Ambient temperature during storage/transportation • min. • 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 60068-2-77 Yes Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)		
 min. -20 °C; Max. 20 °C/h (no condensation) for °C; Max. 20 °C/h (no condensation) Relative humidity Operation, min. Operation, max. Operation, max. So, At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-30, IEC 60068-2-30, IEC 60068-2-14 Vibrations Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-7 Yes Operating systems Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) 		40 O, Max. 10 O/II (IIO COITGETISation)
 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 60068-2-30, IEC 60068-2-14 Vibrations Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) 		20 °C: May 20 °C/b (no condensation)
Relative humidity Operation, min. Sy; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-31, IEC		
Operation, min. Operation, min. Shock testing tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14 Standard for the condensation of the condensatio		ou G; Max. 20 G/n (no condensation)
Operation, max. Operation, max. Operation, max. Operation, tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14 Vibrations Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-79 Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	·	F (V. A4 00 00 lb (re-seed as V.) T
Vibrations Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-7 Yes Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)		60068-2-30, IEC 60068-2-14
Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27		
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)		Yes
Operating systems Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Shock testing	
Local language of operating system Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	• tested according to IEC 60068-2-27	Yes
Spanish, Italian, Chinese)	Operating systems	
pre-installed operating system	Local language of operating system	
1 5.7	pre-installed operating system	

Preinstalled Preinstalled STEP 7 Professional (TIA Portal) STEP 7 Yes; Professional 2017 SR2 WinCC flexible Advanced 2008 WinCC Advanced (TIA Portal) STEP 5 Yes; Software version: SP5 Yes; Software version: SP5 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 Made in Germany: development and production in Germany	Windows 10	Yes; Windows 10 Enterprise 64-bit
	Software	
STEP 7 WinCC flexible Advanced 2008 WinCC Advanced (TIA Portal) STEP 5 WinCC Advanced (TIA Portal) STEP 5 Wes; Software version: STEP 5 V7.23 HF2 (Incl. GRAPH 5/II V7.15) Mechanics/material Material of housing Handle Yes; retractable Socket for Kensington lock Yes rubber corner guards Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Power supply Accumulator Yes Recovery media Yes; Restore & Recovery Other free hotline Yes Software version: SP5 Yes; Software version: STEP 5 V7.23 HF2 (Incl. GRAPH 5/II V7.15) Yes; Software version: STEP 5 V7.23 HF2 (Incl. GRAPH 5/II V7.15) Yes; Potroactable Yes; retractable Yes Test and Test a	Preinstalled	
WinCC flexible Advanced 2008 WinCC Advanced (TIA Portal) Yes; software version: SP5 Yes; optional; software version: STEP 5 V7.23 HF2 (incl. GRAPH 5/II V7.15) Wechanics/material	 STEP 7 Professional (TIA Portal) 	Yes; software version: V16
	• STEP 7	Yes; Professional 2017 SR2
◆ 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 Vidth 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. Scope of supply Accumulator Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other Yes	 WinCC flexible Advanced 2008 	Yes; Software version: SP5
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 Yes free hotline Yes	 WinCC Advanced (TIA Portal) 	Yes; software version: V16
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 Recovery media Yes Technology Technolog	• STEP 5	Yes; Optional; software version: STEP 5 V7.23 HF2 (incl. GRAPH 5/II V7.15)
Handle	Mechanics/material	
Socket for Kensington lock rubber corner guards Pimensions Width 385 mm Height 53 mm Depth 275 mm Weights Weight, approx. Scope of supply Accumulator Power supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes Restore & Recovery Other free hotline	Material of housing	metal
rubber corner guards Pimensions 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	Handle	Yes; retractable
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; Restore & Recovery Other free hotline Yes	Socket for Kensington lock	Yes
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; Restore & Recovery Other free hotline Yes	rubber corner guards	Yes
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	Dimensions	
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	Width	385 mm
Weights Weight, approx. 3.4 kg; incl. rechargeable battery Scope of supply Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Height	53 mm
Weight, approx. Scope of supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline 3.4 kg; incl. rechargeable battery Yes Yes Yes Yes Yes Recovery Media Yes; Restore & Recovery	Depth	275 mm
Scope of supply Accumulator Power supply Backpack SIMATIC Software Recovery media Yes Restore & Recovery Other free hotline Yes	Weights	
Accumulator Yes Power supply Yes Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Weight, approx.	3.4 kg; incl. rechargeable battery
Power supply Backpack Yes SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Scope of supply	
Backpack Yes SIMATIC Software Yes Recovery media Yes; Restore & Recovery Other free hotline Yes	Accumulator	Yes
SIMATIC Software Recovery media Yes; Restore & Recovery Other free hotline Yes	Power supply	Yes
Recovery media Yes; Restore & Recovery Other free hotline Yes	Backpack	Yes
Other free hotline Yes	SIMATIC Software	Yes
free hotline Yes	Recovery media	Yes; Restore & Recovery
	Other	
Note: Made in Germany: development and production in Germany	free hotline	Yes
	Note:	Made in Germany: development and production in Germany

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