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Data sheet 6ES7718-1BB16-1NA3

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 SD-RAM SO-DIMM; 512 GB SSD SATA (2.5"); with S5 interface, with S5-EPROMMER; incl. STEP 5 license; incl. S5-AG cable and EPROM adapter; line cable with power plug: China; keyboard: QWERTZ / QWERTY; approval for China (CCC); 512 GB SSD NVME (M.2); without operating system; trial license STEP 7 Professional Combo; trial license WinCC Advanced Combo (TIA Portal & WinCC flexible), trial license Safety Advanced Combo (TIA Portal & Distributed Safety); version of the preinstalled software and licenses V18

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/m²
Backlighting	
● Type of backlighting	LED
Control elements	
Keyboard	
● 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)
Storage	
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

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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
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	
— 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
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	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	
● 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 IoT Enterprise 2021 LTSC
● Windows 11	Yes; Windows 11 IoT Enterprise (version 22H2)
Software	
Preinstalled	
● STEP 7 Professional (TIA Portal)	Yes; software version: V16

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● 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 unit	Yes
Backpack	Yes
SIMATIC Software	Yes
Recovery media	Yes; Restore & Recovery
Other	
Note:	Made in Germany: development and production in Germany
Approvals / Certificates	

General Product Approval				Dangerous goods	
Miscellaneous	EAC	BIS CRS	China RoHS	Dangerous goods in-formation	Test Summary Report UN 38.3

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