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Data sheet 6ES7717-1BA04-0BC4

No longer available SIMATIC Field PG M5 Advanced; I7-6820EQ (2.8 to 3.5 GHz; 4 kernels+hyperthreading; 8 MB SMART cache); 15.6" display; Full HD (1920x 1080); WLAN 802.11AC & Bluetooth V4.0; DVD +/-RW; HD graphic 530 1x 16 GB DDR4 SD-RAM SO-DIMM 1 TB HDD SATA (2.5"); without S5 interface, without S5-EPROMMER Line cable with power plug: USA; Keyboard: QWERTZ/QWERTY Windows 10 Enterprise, 64 bit; License for STEP 7 Prof combo (V15 & 2017), WinCC Advanced combo (V15 & WinCC flexible 2008) Software version V15.0.0.0

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/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 i5-6440EQ (2.7 GHz to 3.4 GHz, 4 cores, 6 MB Smart Cache) or i7-6820EQ (2.8 GHz to 3.5 GHz, 4 cores, 8 MB Smart Cache)
Chipset	Mobile Intel QM170
Hyper-threading	Yes; for Intel Core i7 processor
Turbo Boost Technology 2.0	Yes
Graphic	
Graphics controller	Intel® HD graphics 530
Drives	
DVD-RW	Yes
Hard disk	Yes; Easy to replace
● Memory capacity	1 Tbyte; HDD
SSD	Yes; Easy to replace
● Memory capacity	512 Gbyte; Up to 1 TB SSD
TPM Security Chip	Yes; 2.0 (version for China without TPM)
Storage	
Type of memory	DDR4-SDRAM SO-DIMM
Work memory	
● Number of slots	2; Can be equipped with 1x 8 GB, 1x 16 GB or 2x 16 GB
Accumulator	
Replaceable	Yes; Lithium-ion battery

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Capacity	8.8 A·h
Hardware configuration	
Slots	
● Number of ExpressCard slots	1; Type 34
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; USB 3.0
● Type A	3; 1x USB port incl. integrated charging function for USB devices (e.g. smartphone) - also with device switched off
● type C	1
Number of chip-card readers	1; Smart Card Reader (ISO/IEC 7816)
Bluetooth radio standard	Yes; V4.0
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; Gigabit Ethernet; 2x RJ45 with 2 independent MAC/IP addresses
● Wake on LAN	Yes; Via Port 1
● 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 (to IEC 801-2/IEC 1000-4-2; ESD), ±8 kV air discharge (to IEC 801-2/IEC 1000-4-2; 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	
● 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	

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● 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 7	Yes; Ultimate 64 bit, SP1
Software	
Preinstalled	
● STEP 7 Professional 2010	Yes; Software version: SR4
● STEP 7 Professional (TIA Portal)	Yes; Software version: V14
● WinCC flexible Advanced 2008	Yes; Software version: SP3
● WinCC Advanced (TIA Portal)	Yes; Software version: V14
● 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	
free hotline	Yes
Note:	Made in Germany: development and production in Germany

Classifications

	Version	Classification
eClass	16	19-20-05-03
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	10	EC001418
ETIM	9	EC001418
ETIM	8	EC001418
ETIM	7	EC001418

Approvals / Certificates

General Product Approval

Miscellaneous

Miscellaneous

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General Product Approval	Radio Equipment Type Approval Certificate	Dangerous goods	
China RoHS	Miscellaneous	Dangerous goods information	Test Summary Report UN 38.3

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