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## Data sheet 6ES7717-1BA04-0AC3

***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 7 Ultimate SP1, 64 bit License for STEP 7 Prof combo (V15 & 2017), WinCC Advanced combo (V15 & WinCC flexible 2008) Version of the software V14.0.1.1

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|---|---|
| **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 |

**last modified:** 11/25/2025


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