

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

### 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/m<sup>2</sup>

#### 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) 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
<b>Drives</b>	
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)
<b>Memory</b>	
Type of memory	DDR4-SDRAM SO-DIMM
<b>Work memory</b>	
• Number of slots	2; Can be equipped with 1x 8 GB, 1x 16 GB or 2x 16 GB
<b>Accumulator</b>	
Replaceable	Yes; Lithium-ion battery
Capacity	8.8 A·h
<b>Hardware configuration</b>	
<b>Slots</b>	
• Number of ExpressCard slots	1; Type 34
<b>Interfaces</b>	
PROFIBUS/MPI	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
• 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
<b>Video interfaces</b>	
• analog video signal (VGA)	Yes; via adapter from DVI to VGA
• DVI-I	Yes; 1x
• DisplayPort	Yes; 1x
<b>Industrial Ethernet</b>	
• Industrial Ethernet interface	2 x 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
<b>WLAN</b>	
• Type	802.11ac
<b>Integrated Functions</b>	
<b>Monitoring functions</b>	
• Status LEDs	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
<b>EMC</b>	
<b>Interference immunity against discharge of static electricity</b>	
• 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)
<b>Interference immunity to cable-borne interference</b>	
• 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)
<b>Standards, approvals, certificates</b>	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
DIN/ISO 9001	Yes
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	5 °C; Max. 10 °C/h (no condensation)
• max.	40 °C; Max. 10 °C/h (no condensation)
<b>Ambient temperature during storage/transportation</b>	
• min.	-20 °C; Max. 20 °C/h (no condensation)
• max.	60 °C; Max. 20 °C/h (no condensation)
<b>Relative humidity</b>	
• 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
<b>Vibrations</b>	
• Operation, tested according to IEC 60068-2-6	Yes
<b>Shock testing</b>	
• tested according to IEC 60068-2-27	Yes

## Operating systems

Additional info on operating system	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
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### 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
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## Scope of supply

Accumulator	Yes
Power supply	Yes
Backpack	Yes
SIMATIC Software	Yes
Recovery media	Yes; Restore & Recovery

## Other

free hotline	Yes
Warranty period	24 mo; except for: rechargeable battery (6 months)
Note:	Made in Germany: development and production in Germany
<b>last modified:</b>	05/30/2018