<table>
<thead>
<tr>
<th><strong>Display</strong></th>
<th>Design of display</th>
<th>10&quot; multi-touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution (pixels)</td>
<td>1,280 x 800 Pixel</td>
<td></td>
</tr>
<tr>
<td><strong>General features</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luminance</td>
<td>250 cd/m²</td>
<td></td>
</tr>
<tr>
<td>Type of backlighting</td>
<td>LED</td>
<td></td>
</tr>
<tr>
<td><strong>Control elements</strong></td>
<td>Keyboard fonts</td>
<td>Touch</td>
</tr>
<tr>
<td></td>
<td>Integrated touch pad</td>
<td>No</td>
</tr>
<tr>
<td><strong>Supply voltage</strong></td>
<td>Design of the power supply</td>
<td>External wide range power supply: 3 pole</td>
</tr>
<tr>
<td></td>
<td>permissible range, lower limit (AC)</td>
<td>100 V; ±10 %, sinusoidal</td>
</tr>
<tr>
<td></td>
<td>permissible range, upper limit (AC)</td>
<td>240 V; ±10 %, sinusoidal</td>
</tr>
<tr>
<td></td>
<td>Line frequency, permissible range</td>
<td>lower limit 47 Hz, upper limit 63 Hz</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>Processor type</td>
<td>Celeron G3902 (2C/2T, 1,6 GHz, 2 MB Cache); Intel Core i5-6442EQ (6 MB Cache, up to 2,70 GHz, iAMT)</td>
</tr>
<tr>
<td></td>
<td>Hyper-threading</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Turbo Boost Technology 2.0</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Graphic</strong></td>
<td>Graphics controller</td>
<td>Intel® HD Graphics 530</td>
</tr>
<tr>
<td><strong>Drives</strong></td>
<td>SSD</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Memory capacity</td>
<td>256 Gbyte; Up to 512 Gbyte SSD</td>
</tr>
<tr>
<td></td>
<td>TPM Security Chip</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>Type of memory</td>
<td>DDR4-SDRAM SO-DIMM</td>
</tr>
<tr>
<td></td>
<td>Work memory integrated</td>
<td>4 Gbyte; 8 GB or 16 GB</td>
</tr>
<tr>
<td><strong>Accumulator</strong></td>
<td>Replaceable</td>
<td>Yes; Lithium-ion battery</td>
</tr>
<tr>
<td></td>
<td>Capacity</td>
<td>5,900 mA·h</td>
</tr>
<tr>
<td></td>
<td>Battery runtime, min.</td>
<td>6 h; According to MobileMark 2014</td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td>Number of RS 232 interfaces</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Number of USB interfaces</td>
<td>3; USB 3.0</td>
</tr>
<tr>
<td></td>
<td>Type A</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Type C</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Bluetooth radio standard</td>
<td>Yes; V4.0</td>
</tr>
<tr>
<td></td>
<td>Multimedia card-/SD card slot</td>
<td>2 in 1 (SDHC UHS-II, MMC)</td>
</tr>
<tr>
<td></td>
<td>Universal Audio Jack</td>
<td>Yes; Audio socket for 3.5 mm jack</td>
</tr>
<tr>
<td></td>
<td>Video interfaces DisplayPort</td>
<td>Yes; DP 1.2 (Mini DisplayPort)</td>
</tr>
<tr>
<td></td>
<td>Industrial Ethernet interface</td>
<td>1 x Ethernet (RJ45)</td>
</tr>
<tr>
<td></td>
<td>– 100 Mbps</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>– 1000 Mbps</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>IAMT (Intel Active Management Technology)</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>WLAN</td>
<td>IEEE 802.11 a/b/g/n and ac</td>
</tr>
</tbody>
</table>
## Integrated Functions

**Monitoring functions**
- Status LEDs

**Battery charge level, device Status, access to drive, WLAN active, SD card, application LED**

## EMC

**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 interferences**
- Interference immunity on supply cables
  - ±2 kV (acc. to IEC 61000-4-4, burst);
  - ±1 kV (acc. to IEC 61000-4-5, surge pulse / line to line);
  - ±2 kV (acc. to IEC 61000-4-5, surge pulse / line to ground)

**Interference immunity on signal cables**
- ±1 kV (acc. to IEC 61000-4-4, burst, length < 30 m);
- ±2 kV (acc. to IEC 61000-4-4, burst, length > 30 m);
- ±2 kV (acc. to IEC 61000-4-5, surge pulse / line to ground)

## Degree and class of protection

**Degree of protection acc. to EN 60529**
- IP40

## Standards, approvals, certificates

**CE mark**
- Yes

**Conforms to MIL-STD-810G**
- Yes

**DIN/ISO 9001**
- Yes

## Ambient conditions

**Ambient temperature during operation**
- 5 °C; Max. 10 °C/h (no condensation)
- 45 °C; Max. 10 °C/h (no condensation)

**Ambient temperature during storage/transportation**
- -20 °C; Max. 20 °C/h (no condensation)
- 60 °C; max. 20 °C/h (no condensation)

**Relative humidity**
- 5 %; At 30 °C/h (no condensation); Tested acc. to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
- 85 %; At 30 °C/h (no condensation); Tested acc. to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14

**Vibrations**
- Operation, tested acc. to IEC 60068-2-6
- Yes

**Shock testing**
- tested acc. 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)

**preinstalled operating system**
- Windows 7
- Yes; Ultimate 64 bit, SP1

## Software

**preinstalled**
- STEP 7 Professional 2010
- No
- STEP 7 Professional (TIA Portal)
- No
- WinCC flexible Advanced 2008
- No
- WinCC Advanced (TIA Portal)
- No
- STEP 5
- No

## Mechanics/material

**Material:** Magnesium alloy
- Yes

**Material of housing**
- metal
- Yes

**Socket for Kensington lock**
- Yes

**rubber corner guards**
- Yes

## Dimensions

**Width x Height x Depth**
- 330 mm x 32 mm x 214 mm

## Weights

**Weight, approx.**
- 1.6 kg; incl. rechargeable battery

## Scope of supply

**Accumulator**
- Yes

**Power supply**
- Yes

**Recovery media**
- Yes; Restore & Recovery

## Other

**free hotline**
- Yes

**Warranty period**
- 36 mo; except for: rechargeable battery (6 mo)

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**Note:** Made in Germany: development and production in Germany, last modified: 22.05.2018