CHERRY SECURE BOARD 1.0

Contact/contactless card reader and encrypted key transmission

The SECURE BOARD 1.0 is an ergonomic keyboard with an integrated reader for smart cards and cards/tags with an RF/NFC interface. For added security and confidentiality, the keyboard can be switched to a secure mode. Now the device can authenticate itself with a certificate and the key transmission is encrypted. This renders hardware key loggers useless and because the standard keyboard channel is locked, BadUSB attacks cannot be carried out on it. Thin clients that have the necessary software integrated are particularly suitable for using these functions.

Decisive advantages

- Intelligent security keyboard with integrated reader for smart cards and cards/tags with RF/NFC interface
- Secure mode with authentication and encryption, especially with thin clients
- PC/SC smart card reader, CCID compatible
- Protocols: T=0, T=1, T=CL
- Read/write with ISO 7816 and ISO 14443 A/B compliant cards
- Flat design, low smart card contacting unit
- Satisfies FIPS-201 requirements
- DE version with DIN/GS compliant layout and meets with BGI-650 ergonomics guide
- Standard for Windows and Linux
- One-handed operation of smart card module
- Awarded the “Blauer Engel” environmental seal
CHERRY SECURE BOARD 1.0

Technical specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layout (country or language)</td>
<td>Depends on product, see “Models” table</td>
</tr>
<tr>
<td>Housing color</td>
<td>Depends on product, see “Models” table</td>
</tr>
<tr>
<td>Key color</td>
<td>Depends on product, see “Models” table</td>
</tr>
<tr>
<td>Weight (product)</td>
<td>approx. 840 g / approx. 1.85 lb</td>
</tr>
<tr>
<td>Total weight (with packaging)</td>
<td>approx. 1150 g / 2.54 lb</td>
</tr>
<tr>
<td>Length of cable</td>
<td>approx. 180 cm / approx. 5.91 ft</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 °C to 65 °C / -4°F to 149°F</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 °C to 50 °C / 32°F to 122°F</td>
</tr>
<tr>
<td>Power consumption</td>
<td>max. 350 mA</td>
</tr>
<tr>
<td>Connection</td>
<td>USB</td>
</tr>
<tr>
<td>Product approvals</td>
<td>• cURus</td>
</tr>
<tr>
<td></td>
<td>• VDE GS</td>
</tr>
<tr>
<td></td>
<td>• VCCI</td>
</tr>
<tr>
<td></td>
<td>• CE</td>
</tr>
<tr>
<td></td>
<td>• FCC</td>
</tr>
<tr>
<td></td>
<td>• FIPS 201</td>
</tr>
<tr>
<td></td>
<td>• Citrix</td>
</tr>
<tr>
<td></td>
<td>• Citrix</td>
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<tr>
<td>Product dimensions</td>
<td>approx. 458 x 188 x 46 mm / approx. 18.03 x 7.40 x 1.81 in</td>
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<tr>
<td>Packaging dimensions</td>
<td>approx. 472 x 232 x 55 mm / 18.58 x 9.13 x 2.17 in</td>
</tr>
<tr>
<td>Keyboard</td>
<td>• Key technology: LPK</td>
</tr>
<tr>
<td></td>
<td>• Service life of standard key &gt; 10 million strokes</td>
</tr>
<tr>
<td></td>
<td>• Number of keys Depends on product, see “Models” table</td>
</tr>
<tr>
<td></td>
<td>• Number of extra keys: 4</td>
</tr>
</tbody>
</table>

Smart card terminal

• Hardware interface: USB
• Compatible chip card types: ISO 7816 cards
• Chip card protocols T=0, T=1
• Transmission speed
  reader <=> card: 420 kBit/s
• Transmission speed
  reader <=> system: max. 12 MBit/s
• Chip card clock frequency 4.8 MHz
• Contacting: mechanical swipe reader
• Mating cycles: approx. 100,000 operations

RF/NFC terminal

• Compatible card types: ISO 14443A /B, ISO 15693 cards and tags
• Range < 5 cm /< 0,16 ft
• NFC: ISO/IEC 18092
• NFC mode: Reader/writer
• NFC tags: 1–5
• Anti-collision: First card detected is active

Software developers’ guide

The implementation and use of secure mode is described in the software developers’ guide.

System requirements

USB connection

Scope of delivery

CHERRY SECURE BOARD 1.0

Operating instructions

Packaging unit

Number of products in outer package 49

Warranty

2 years

Errors, technical changes and delivery options reserved. Technical information refers only to the specifications of the products. Features may differ from the information provided.
## Design variants

(possible country/layout versions, others available on request)

<table>
<thead>
<tr>
<th>Product name</th>
<th>Order number</th>
<th>EAN-Code</th>
<th>Layout (country or language)</th>
<th>Housing color</th>
<th>Key color</th>
<th>Number of keys</th>
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<tbody>
<tr>
<td>CHERRY SECURE BOARD 1.0</td>
<td>JK-A0400BE-0 *</td>
<td>4025112090608</td>
<td>Belgium</td>
<td>White/gray</td>
<td>White/gray</td>
<td>105 + 4</td>
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* on request