

CHERRY SECURE BOARD 1.0



Models may vary from the image shown

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

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Technical specifications

Layout (country or language)

Depends on product, see "Models" table

Housing color

Depends on product, see "Models" table

Key color

Depends on product, see "Models" table

Weight (product)

approx. 840 g / approx. 1.85 lb

Total weight (with packaging)

approx. 1150 g / 2.54 lb

Length of cable

approx. 180 cm / approx. 5.91 ft

Storage temperature

-20 °C to 65 °C / -4° F to 149° F

Operating temperature

0 °C to 50 °C / 32° F to 122° F

Power consumption

max. 350 mA

Connection

USB

Product approvals

- cURus
- TÜV-Süd GS
- VCCI
- CE
- FCC
- Citrix
- UKCA

Product dimensions

approx. 458 x 188 x 46 mm / approx. 18.03 x 7.40 x 1.81 in

Packaging dimensions

approx. 472 x 232 x 55 mm / 18.58 x 9.13 x 2.17 in

Keyboard

- Key technology: LPK
- Service life of standard key > 10 million strokes
- Number of keys Depends on product, see "Models" table
- Number of extra keys: 4

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

Software interface PC/SC, CCID

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

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Operating instructions

Packaging unit

Number of products in outer package 49

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Warranty

We put a lot of dedication and hard work into the development of our products and we are proud of their quality. This is why, in addition to the statutory guarantee mentioned in the operating instructions, we are granting an expanded manufacturer's guarantee that is subject to the conditions stated below.

For the first two years after delivery, the statutory warranty applies. In the third year after delivery, CHERRY voluntarily grants an additional warranty according to the following conditions ("extended warranty"). In the event of a defect, please contact the seller of your CHERRY product. Do not carry out any repairs on your own and do not open the product. There is no warranty if unauthorized changes to the product cause a defect.

Conditions for the extended warranty

In the case of a defect after the first 2 years after delivery of the CHERRY product, CHERRY grants its customers for the additional period of one year the right to assert claims for cure, i.e. demand that the defect is remedied or a thing free of defects is supplied.

The extended warranty is to be asserted against the seller of the CHERRY product upon presentation of the original invoice, proof of purchase or a comparable proof of the time of purchase.

CHERRY, and the seller of the CHERRY product, where applicable, shall remedy the defect in the event the customer has justified claims for cure under the terms of the extended warranty.

Excluded from the extended warranty are damages caused by improper use, in particular by the effects of chemical substances, other damages caused by external influences, as well as normal wear and tear and optical changes, in particular discoloration or abrasion of shiny areas. Also excluded from the extended warranty are accessories and other parts which are not an integral part of the purchased item.

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

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Corded Keyboard

Design variants

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

| Product name | Order number | EAN-Code | Layout (country or language) | Housing color | Key color | Number of keys |
|-------------------------|--------------|---------------|---------------------------------|---------------|------------|-------------------|
| CHERRY SECURE BOARD 1.0 | JK-A0400BE-0 | 4025112090608 | Belgium | White/gray | White/gray | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400BE-2 | 4025112090615 | Belgium | Black | Black | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400CH-0 | 4025112090509 | Switzerland | White/gray | White/gray | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400CH-2 | 4025112090516 | Switzerland | Black | Black | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400DE-0 | 4025112090110 | Germany | White/gray | White/gray | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400DE-2 | 4025112090127 | Germany | Black | Black | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400ES-0 | 4025112090523 | Spain | White/gray | White/gray | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400ES-2 | 4025112090530 | Spain | Black | Black | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400EU-0 | 4025112090134 | US English with EURO symbol | White/gray | White/gray | 104 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400EU-2 | 4025112090141 | US English with EURO symbol | Black | Black | 104 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400FR-0 | 4025112090547 | France | White/gray | White/gray | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400FR-2 | 4025112090554 | France | Black | Black | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400GB-0 | 4025112090561 | UK | White/gray | White/gray | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400GB-2 | 4025112090578 | UK | Black | Black | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400IT-0 | 4025112090585 | Italy | White/gray | White/gray | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400IT-2 | 4025112090592 | Italy | Black | Black | 105 + 4 |
| CHERRY SECURE BOARD 1.0 | JK-A0400PN-2 | 4025112091421 | Pan-Nordic | Black | Black | 105 + 4 |

Please contact your local CHERRY service and support teams or your CHERRY sales partners for versions available in your country.