

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

CHERRY SECURE BOARD 1.0

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

Total weight (with packaging)

approx. 1150 g

Length of cable

approx. 180 cm

Storage temperature

-20 °C to 65 °C

Operating temperature

0 °C to 50 °C

Power consumption

max. 350 mA

Connection

USB

Product approvals

- cURus
- TÜV-Süd GS
- VCCI
- CE
- FCC
- FIPS 201
- Citrix



Product dimensions

approx. 458 x 188 x 46 mm

Packaging dimensions

approx. 472 x 232 x 55 mm

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
- 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

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.

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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

* on request

Mouser Electronics

Authorized Distributor

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CHERRY:

[JK-A0400EU-2](#)