

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 / 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
- VDE GS
- VCCI
- CE
- FCC
- FIPS 201


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

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.



Data sheet

CHERRY SECURE BOARD 1.0

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