CHERRY

CHERRY SECURE BOARD 1.0

Models may vary from the image shown

Endpoint security begins with the keyboard

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

- Secure PIN entry (Class 2 reader)

- 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
- 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.

CHERRY SECURE BOARD 1.0

Corded Keyboard

Design variants

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

	Product name	Order number	Layout (country or language)	Housing color	Key color	Number of keys
	CHERRY SECURE BOARD 1.0	JK-A0400BE-0	Belgium	White/gray	White/gray	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400BE-2	Belgium	Black	Black	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400CH-0	Switzerland	White/gray	White/gray	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400CH-2	Switzerland	Black	Black	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400DE-0	Germany	White/gray	White/gray	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400DE-2	Germany	Black	Black	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400ES-0	Spain	White/gray	White/gray	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400ES-2	Spain	Black	Black	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400EU-0	US English with EURO symbol	White/gray	White/gray	104 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400EU-2	US English with EURO symbol	Black	Black	104 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400FR-0	France	White/gray	White/gray	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400FR-2	France	Black	Black	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400GB-0	UK	White/gray	White/gray	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400GB-2	UK	Black	Black	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400IT-0	Italy	White/gray	White/gray	105 + 4
	CHERRY SECURE BOARD 1.0	JK-A0400IT-2	Italy	Black	Black	105 + 4