

# CHERRY SECURE BOARD 1.0

Contact/contactless card reader and encrypted key transmission



Models may vary from the image shown

The SECURE BOARD 1.0 is an ergonomic keyboard with an integrated reader for smart cards and cards/tags with an RFID/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.

## FUNCTION AND PERFORMANCE

- Intelligent security keyboard with integrated reader for smart cards and cards/tags with RFID/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

## TECHNICAL DATA

Weight main product:	30 oz
Dimensions product without packaging:	18,03 in x 7,4 in x 1,81 in
Cable length:	5.91 ft
Storage temperature:	-4 °F - 149 °F
Working temperature:	32 °F - 122 °F
Produktzulassungen:	<ul style="list-style-type: none"><li>• Blauer Engel</li><li>• cURus</li><li>• FCC</li><li>• GS</li><li>• Citrix</li><li>• CE</li><li>• VCCI</li><li>• UKCA</li></ul>
System Requirements-Hardware:	USB-A
Operating system:	<ul style="list-style-type: none"><li>• Linux</li><li>• Mac OS</li><li>• Windows Vista (64Bit)</li><li>• Windows XP</li><li>• Windows XP (64Bit)</li><li>• Windows 7</li><li>• Windows 8</li><li>• Windows 10</li><li>• Windows 11</li></ul>
Scope of delivery:	<ul style="list-style-type: none"><li>• Manual</li><li>• Keyboard</li></ul>
Reliability:	MTBF > 45.000 Stunden
Software support:	<ul style="list-style-type: none"><li>• CHERRY KEYS</li><li>• PC/SC Diagnose Tool</li></ul>
Service life per key (in million strokes):	10 mio. actuations
Switching characteristics:	standard

Max. current consumption (mA) of keyboard:	350 mA
Keyboard format:	Full-size (100%)
Integrated metal plate:	yes
Volume (dB) of keyboard:	40,7 db
N-key rollover:	not specified
Anti-ghosting:	no
Key encryption:	Cha Cha 20
Response Time:	3-5 ms
Internal memory:	no
Actuating force (cN):	70 cN
Forward travel (mm):	2,5 mm
Key stroke (mm) total travel path:	3 mm
Tastenkopf Beschriftung:	Laser etching
Palm rest:	Palm rest not available
USB hub:	no
Special key functions:	<ul style="list-style-type: none"> <li>• Calculator</li> <li>• e-mail program</li> <li>• Browser</li> <li>• PC lock</li> </ul>
Illumination:	no
Adjustable feet:	integrated
Status LEDs:	in housing

Key technology:	Rubberdome
Keycap material:	ABS
Protected PIN entry:	yes
Protocols:	<ul style="list-style-type: none"> <li>• T=1</li> <li>• T=0</li> <li>• T=CL</li> </ul>
Kontaktierung:	Sliding Contacts
SW interface:	<ul style="list-style-type: none"> <li>• CCID</li> <li>• PC/SC</li> </ul>
Mating cycles:	100.000
Chip card types:	<ul style="list-style-type: none"> <li>• ISO 7816 Cards</li> <li>• ISO 14443A Cards</li> <li>• ISO 14443B Cards</li> <li>• ISO 15693 Cards</li> </ul>
SmartCard-Speed:	420 kBit/s
System speed:	12 MBit/s
Clock frequency:	4.8 MHz
Card power:	60 mA
Status display of chip card reader:	two-in-one LED
Chip card reader reading distance:	5 cm
Chip-card reader type:	contact + contactless
Model-Number:	JK-A04

Errors, technical changes and delivery options reserved. Technical information refers only to the specification of the products. Properties are not guaranteed.

Designation

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