

# 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:	840 g
Dimensions product without packaging:	458 mm x 188 mm x 46 mm
Cable-length:	180 cm
Storage temperature:	-20 °C - 65 °C
Working temperature:	0 °C - 50 °C
Product approvals:	<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:	no
Anti-ghosting:	no
Key encryption:	Cha Cha 20
Response time:	3-5 ms
Internal memory:	no
Actuating force (cN):	70 cN
Pre-Travel:	2,5 mm
Total Key Travel:	3 mm
Key labeling:	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>
Unit chipcard reader:	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
Protection class:	Standard
Warranty:	2 years warranty

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

EAN & Part number	Protection class	Color	Illumination	Layout
4025112090615 JK-A0400BE-2	Standard	black	no	BE (Belgium)
4025112090516 JK-A0400CH-2	Standard	black	no	CH (Switzerland)
4025112090127 JK-A0400DE-2	Standard	black	no	DE (Germany)
4025112090530 JK-A0400ES-2	Standard	black	no	ES (Spain)
4025112090141 JK-A0400EU-2	Standard	black	no	EU (USA+ €-Symbol)
4025112090554 JK-A0400FR-2	Standard	black	no	FR (France)
4025112090578 JK-A0400GB-2	Standard	black	no	GB (United Kingdom)
4025112090592 JK-A0400IT-2	Standard	black	no	IT (Italy)
4025112091421 JK-A0400PN-2	Standard	black	no	PN (PanNordic)
4025112090608 JK-A0400BE-0	Standard	light-grey	no	BE (Belgium)
4025112090509 JK-A0400CH-0	Standard	light-grey	no	CH (Switzerland)
4025112090110 JK-A0400DE-0	Standard	light-grey	no	DE (Germany)
4025112090523 JK-A0400ES-0	Standard	light-grey	no	ES (Spain)
4025112090134 JK-A0400EU-0	Standard	light-grey	no	EU (USA+ €-Symbol)
4025112090547 JK-A0400FR-0	Standard	light-grey	no	FR (France)
4025112090561 JK-A0400GB-0	Standard	light-grey	no	GB (United Kingdom)
4025112090585 JK-A0400IT-0	Standard	light-grey	no	IT (Italy)
4025112094958 JK-A0400PN-0	Standard	light-grey	no	PN (PanNordic)