# CHERRY SECUREBOARD 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

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|---|---|
| Color: | black |
| Weight main product: | 840 g |
| Dimensions product without packaging: | 458 mm x 188 mm x 46 mm |
| Weight of product incl. packaging: | 1,000 g |
| Dimensions product incl. packaging: | 458 mm x 188 mm x 46 mm |
| Content of master carton (pieces): | 48 |
| Weight of master carton incl. content: | 50,000 g |
| Dimensions master carton: | 600 mm x 800 mm x 1,100 mm |
| Cable-length: | 180 cm |
| Storage temperature: | -20 °C - 65 °C |
| Working temperature: | 0 °C - 50 °C |
| Product approvals: | • Blauer Engel<br>• cURus<br>• FCC<br>• GS<br>• Citrix<br>• CE<br>• VCCI<br>• UKCA |
| System Requirements-Hardware: | USB-A |
| Operating system: | • Linux<br>• Mac OS<br>• Windows Vista (64Bit)<br>• Windows XP<br>• Windows XP (64Bit)<br>• Windows 7<br>• Windows 8<br>• Windows 10<br>• Windows 11 |

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| Scope of delivery: | • Manual<br>• Keyboard |
| Reliability: | MTBF > 45.000 Stunden |
| Software support: | • CHERRY KEYS<br>• PC/SC Diagnose Tool |
| 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: | 2,5 mm |
| Key stroke total travel path: | 3 mm |
| Key labeling: | Laser etching |
| Palm rest: | Palm rest not available |
| USB hub: | no |
| Number of keys: | 105 + 4 |
| Special key functions: | • Calculator<br>• e-mail program<br>• Browser<br>• PC lock |

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|---|---|
| Illumination: | no |
| Adjustable feet: | integrated |
| Status LEDs: | in housing |
| Key technology: | Rubberdome |
| Keycap material: | ABS |
| Protected PIN entry: | yes |
| Protocols: | • T=1<br>• T=0<br>• T=CL |
| Unit chipcard reader: | Sliding Contacts |
| SW interface: | • CCID<br>• PC/SC |
| Mating cycles: | 100.000 |
| Chip card types: | • ISO 7816 Cards<br>• ISO 14443A Cards<br>• ISO 14443B Cards<br>• ISO 15693 Cards |
| 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 |




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