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CHERRY FIPS-201 Secure Board Contact Contactless Card Reader and Encrypted Key Transmission Owner's Manual

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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, Bad USB attacks cannot be carried out on it. Thin clients that have the necessary software integrated are particularly suitable for using these functions.

Contents

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 "Bauer Engel" environmental seal

TECHNICAL DATA

Color:	light-grey
Weight main product:	840 g
Dimensions product without packaging:	458 mm x 188 mm x 46 mm
Content of master carton (pieces):	49
Dimensions master carton:	470 mm x 230 mm x 59 mm
Cable-length:	180 cm
Storage temperature:	-20 °C – 65 °C
Working temperature:	0 °C – 50 °C
Product approvals:	- Bauer Engel - crus - FCC - GS - Citrix - CE - VCCI - UKCA
System Requirements Hardware:	USB-A
Operating system:	- Linux - Mac OS - Windows Vista (64Bit) - Windows XP - Windows XP (64Bit) - Windows 7 - Windows 8 - Windows 10 - Windows 11

Scope of delivery:	Manual Keyboard
Reliability:	MTBF > 45.000 Stunned
Software support:	CHERRY KEYS 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
Special key functions:	- Calculator - e-mail program - Browser - PC lock
Illumination:	No
Adjustable feet:	Integrated
Status LEDs:	in housing
Key technology:	Rubberdome
Keycap material:	ABS
Protected PIN entry:	Yes

Protocols:	- T=1 - T=0 - T=CL
Unit chipcard reader:	Sliding Contacts
SW interface:	CCID PC/SC
Mating cycles:	100.000
Chip card types:	- ISO 7816 Cards - ISO 14443A Cards - ISO 14443B Cards - ISO 15693 Cards
Smartcard-Speed:	420 Kbit/s
System speed:	12 MIT/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.

Documents / Resources

	CHERRY FIPS-201 Secure Board Contact Contactless Card Reader and Encrypted Key Transmission [pdf] Owner's Manual FIPS-201, FIPS-201 Secure Board Contact Contactless Card Reader and Encrypted Key Transmission, Secure Board Contact Contactless Card Reader and Encrypted Key Transmission, Board Contact Contactless Card Reader and Encrypted Key Transmission, Contactless Card Reader and Encrypted Key Transmission, Card Reader and Encrypted Key Transmission, Reader and Encrypted Key Transmission, Encrypted Key Transmission, Transmission

References

- 🍒 **CHERRY Deutschland - Mäuse, Tastaturen und Eingabegeräte für Profis**

- **User Manual**