



Programmable Full Travel Keyboards | Tech Specs

Keys and Keypads

- > 30 Million activations per key position
- Patented technology provides IP54 rating for dust and liquid protection
- Keys available in various colors
- Easy to reconfigure with multiple key sizes
- Customized keys available:
 - Key spacing 19 mm
 - Actuation travel 3.5 mm

Fingerprint

- Optical or capacitive sensor
- Excellent image quality
- Compatible with Windows®
- USB device
- SDK available

Smart Card Reader (SCR) and RFID

- Supply current 60 mA to power the smart card
- USB interface
- Application interface PC/SC, OCF and CT-API
- ISO 7816 and EMV 2000 compliant
- HBCI compliant
- USB CCID
- Microsoft® WHQL certified
- RFID is available on request



3 Track Magnetic Stripe Reader (MSR)

- The MSR is compatible with all magnetic cards according to ISO 7810, ISO 7811, ISO 7812 and ISO 7813
- Bidirectional MSR (cards will be read in either direction)
- 3 tracks, including the ability to read driver's license format AAMVA and CADL
- Approx. 1,000,000 passes under lab environment
- Swipe speed 5 to 55 ips
- Error rate less than 0.5%
- Status LED provides confirmation of a correct read
- Headers and terminators are programmable

OCR Reader

- Reads passports, national ID cards, visas and other documents conforming to ICAO document 9303
- Bidirectional hand-swipe
- Easy document handling with single slot
- Long lifetime through metal plate
- No moving parts
- USB interface with virtual COM port, API or keyboard wedge



Encryption

PrehKeyTec offers an encryption inside of the keyboards. Sensible data like card holder data of magnetic stripe cards can be encrypted inside the keyboard.

- Secure data entry
- Encryption of MSR, keylock or keyboard data
- Encryption and authentication
- Encryption key length up to 256 bit
- User can activate or deactivate encryption by command
- Stores encryption keytable in a secure area of keyboard controller
- Keyboard can be recognized by hardware key
- Library or source code to decrypt data

Total Cost of Ownership (TCO)

Counters to capture statistic features of keys and modules for preventive maintenance to reduce service calls:

- Good and bad reads of MSR data
- Count keylock changes
- Count key activations of defined keys
- Operating hours of the keyboard

Keylock

- Headers and terminators are programmable
- Keyboard offline configurable
- Others on request

Glidepad

A glidepad with integrated mouse buttons can be installed in a 3x4 key size at different positions.

- Fully compatible with Windows® and Linux® drivers
- Capacitive-sensing technology
- No additional drivers are necessary, works as a mouse



LEDs

- Status LEDs for NUM, CAPS, SCROLL
- ACCEPT LED to indicate good and bad MSR reads
- LEDs can be controlled by software



- Tone Indicator**
- User programmable buzzer for e. g. good and bad reads
 - Configurable volume and duration of sound
 - Different frequencies of sound
 - Sequence of sounds
 - Controlled by commands

- WinProgrammer**
- The WinProgrammer tool configures the modules and/or keytable and programs the keys of the keyboard. It is a Windows® based application and easy to use.
- For Windows®
 - Program up to 128 layers
 - Program by drag and drop
 - Configure headers/terminators of modules (MSR, keylock etc.)
 - Download encryption key
 - Create user defined layouts

- Firmware Update Utility**
- For Windows® and Linux®
 - To download firmware into keyboards
 - GUI and command line controlled

- UPOS**
- OPOS drivers for Windows®
 - Java®POS drivers for Windows® and Linux®
 - For MSR, keylock, tone indicator and POS-Keys

Available Standard Options

Product	Fingerprint	Smart Card	MSR	OCR	Keylock	Glidepad (USB only)	Alpha Layout
MCI 30	●		●				
MCI 60	●		●		●	●	
MCI 84	●		●		●	●	
MCI 96	●	●	●		●	●	●
MCI 111			●	●		●	●
MCI 128	●	●	●		●	●	●
MCI 3100	●	●	●		●	●	●
MC 147	●	●	●		●	●	●
MSI 60	●		●		●	●	

● = available

Electronics	Supply voltage	+5 V ± 5%
	Current consumption	Max. 60 mA (base model)
	Interface	USB PS/2 interface available on request
	Auto repeat	All keys, repeat frequencies and delay times are programmable
	Tone indicator	Keyclick and sound via command or UPOS
	4 LEDs	Caps lock, Scroll lock, Num lock, Accept LED for MSR and/or user controlled

Materials	Housing	ABS
	Guide frame	Polystyrene
	Switching membrane	Polyester
	Spring elements	Elastomer
	Textile filter	Polyester fibers
	Keys and keycaps	PBT/POM/PC/PMMA

Temperature and Environment Ratings	Operational temperature	0°C to 50°C
	Air pressure	700 hPa to 1,060 hPa
	Storage & transportation	-40°C to 60°C
	Climatic class	DIN EN 60068-1 0/050/21

Certifications	■ CE
	■ FCC
	■ RoHS
	■ REACH

Drivers and Tools	■ OPOS and Java®POS drivers for MSR, keylock, keyboard and tone indicator, Java®POS drive
	■ Software API for keyboard and modules
	■ Software API for encryption
	■ Drivers for SCR, fingerprint, scanner, OCR
	■ Configuration tool WinProgrammer
	■ Firmware update tool
	■ Keytable download tool for Windows® and Linux®
	■ WEPOS verified (special order)

Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.
 Microsoft® and Windows® are registered trademarks of Microsoft Corporation in the U.S. and other countries.
 Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.
 © 2023 PrehKeyTec GmbH, Subject to change without notice.