# 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. Sensitive 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

### 5 Positions Keylock with 3 Keys
- Headers and terminators are programmable
- Keyboard offline configurable
- Lifetime: 20,000 cycles
- 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**

<table>
<thead>
<tr>
<th>Product</th>
<th>Fingerprint</th>
<th>Smart Card</th>
<th>MSR</th>
<th>OCR</th>
<th>Keylock</th>
<th>Glidepad (USB only)</th>
<th>Alpha Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCI 30</td>
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</tbody>
</table>

● = available
### TECH SPECS

#### 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
- **EMC**: EN 55032:2012, EN 55024:2010
- **RoHS**: EN 50581:2012
- **FCC**: FCC 47 CFR Part 15
- **Interface immunity**: Electrostatic discharge immunity according to DIN EN 61000-4-2, test condition ±15 kV air and ± 8 kV contact discharge, Electro

#### 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)

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