

# MultiBoard G81-7040 / G81-8040

Multifunctional USB keyboards with Magnetic Stripe Reader and EMV 2000 approved Smart Card Reader. They can work with memory cards and processor cards - for Banks, POS and custom applications (e.g. payment and system login). A user friendly and ergonomic all-in-one solution designed to keep the workplace tidy and manageable.



## Features

- Single keys with Cherry FTSC modules (> 50 million keypresses)
- Robust and reliable
- High performance Magnetic Stripe Reader
- EMV 2000 approved PC/SC Smart Card Reader (CCID and ISO 7816 compliant)
- 43 programmable keys
- OPOS and JavaPOS for Windows™ and Linux Support of Client-Server architectures
- Efficient configuration with powerful 'Cherry Tools' software
- 104/105 position key layouts
- Multiple languages available
- Colours black or light grey
- G81-7040 with space-efficient 405 mm width

## Main Applications

Point of Service

Banks

Postal Services

Custom applications

## Magnetic Stripe Reader

2- or 3-track reader

Standards: ISO 7811/-12, AAMVA, JIS others on request

Reader head: up to 1 Mio. reading cycles

Reading speed: 3 - 125 inch/s at 75 Bit/inch  
3 - 50 inch/s at 210 Bit/inch

Freely programmable Headers and Terminators for each track

Flexible parsing and configuration of Magnetic Stripe data stream

Enhanced security by selection of non-keyboard hex-codes

Adjustable transmission of start and stop characters (sentinels)

Audible indication of MSR good read

Free selectable output order of the tracks

Easy configuration file transfer with Windows™ Explorer

Supports Windows™ system functionalities

Remote network installation with 'Cherry Tools Runtime' version

## Smart Card Reader

SmartTerminal xx44 (CardMan™ 3121 compatible)

Standards: ISO 7816, EMV 2000 Level 1, CCID, PC/SC, CT-API

Protocols: T=0, T=1  
S=8 (I<sup>2</sup>C)  
S=9 (3-wire; SLE4418/28)  
S=10 (2-wire; SLE 4432/42)

Card contacting: Landing contacts

Insertion cycles: approx. 200.000

Transfer rate:

- to the card: up to 420 Kbps

- to the system: up to 12 Mbps

## Agency Approvals

CE, GS, VDE, cURus, FCC, C-Tick, VCCI, BSMI,  
WHQL, EMV 2000 Level 1 for SmartTerminal xx44

## System Requirements

USB plug (1.1 or 2.0) and  
USB supporting operating system

## Delivery Volume

Keyboard, Manual, CDROM

## Software

- Cherry Tools  
MS Windows™ 98, ME, 2000, XP
- Cherry Tools Runtime Edition  
MS Windows™ 98, ME, 2000, XP, XPembedded
- Magnetic Stripe Reader Driver for Linux  
Linux Kernel 2.4 or higher
- PC/SC Driver for SmartTerminal xx44  
MS Windows™ 98, ME, 2000, XP  
MS Windows™ CE 3.0 / CE.NET (depends on hardware)  
Linux (Kernel with USB support)
- SmartDevice Setup for SmartTerminal xx44  
MS Windows® 98, ME, 2000, XP
- OPOS Local Edition  
MS Windows™ 98, ME, NT4, 2000, XP, XPembedded
- OPOS Client/Server Edition  
MS Windows™ NT4, 2000, XP, XPembedded
- JavaPOS Local Edition  
MS Windows™ 98, ME, NT4, 2000, XP, XPembedded  
Linux Kernel 2.4 or higher  
IBM JRE V1.3.x or higher, SUN JRE V1.4.x or higher
- JavaPOS Client/Server Edition  
MS Windows™ NT4, 2000, XP, XPembedded  
Linux Kernel 2.4 or higher  
IBM JRE V1.3.x or higher, SUN JRE V1.4.x or higher

## Technical Data

### Interface

USB 2.0, full speed (1.1 compatible)

### Cable Length

approx. 1.75 m

## Number of Keys

104 / 105 incl. Windows™ keys

## Keyswitch Lifetime

> 50 million operations

## Weight

### G81-7040

approx. 1700 g (without packaging)  
approx. 2100 g (incl. packaging)

### G81-8040

approx. 1850 g (without packaging)  
approx. 2300 g (incl. packaging)

## Dimensions (approx.)

### G81-7040

Keyboard: Width: 405 mm (16.0")  
Depth: 220 mm ( 8.7")  
Height: 64 mm ( 2.3")

Packaging: Width: 455 mm (17.9")  
Depth: 275 mm (10.8")  
Height: 72 mm ( 2.8")

### G81-8040

Keyboard: Width: 470 mm (18.5")  
Depth: 220 mm ( 8.7")  
Height: 64 mm ( 2.3")

Packaging: Width: 520 mm (20.5")  
Depth: 280 mm (11.0")  
Height: 72 mm ( 2.8")

## Current Input

max. 300 mA

## Reliability

MCBF > 10<sup>9</sup> operations  
MTBF > 100,000 hours

## Storage Temperature

-20°C to 60°C

## Operating Temperature

0°C to 50°C

## Packaging Unit

### G81-7040

34 keyboards per master carton  
2 master cartons per pallet

### G81-8040

31 keyboards per master carton  
2 master cartons per pallet

## Warranty

2 years

## Order Description

Order Number	Magnetic Stripe Reader Tracks	Smart Card Reader	Interface	Colour
<b>Compact version</b>				
G81-7040LUAx-0	1+2+3	SmartTerminal xx44	USB	light grey
G81-7040LUAx-2	1+2+3	SmartTerminal xx44	USB	black
G81-7040LUBx-0	1+2	SmartTerminal xx44	USB	light grey
G81-7040LUBx-2	1+2	SmartTerminal xx44	USB	black
<b>Standard version</b>				
G81-8040LUAx-0	1+2+3	SmartTerminal xx44	USB	light grey
G81-8040LUAx-2	1+2+3	SmartTerminal xx44	USB	black
G81-8040LUBx-0	1+2	SmartTerminal xx44	USB	light grey
G81-8040LUBx-2	1+2	SmartTerminal xx44	USB	black

The xx in the order number defines the country version as follows:

BE	Belgium
CH	Switzerland
DE	Germany
DK	Denmark
ES	Spain
EU	US English / international with €
FR	France
GB	English (UK)
IT	Italy
NO	Norway
PO	Portugal
SF	Sweden/ Finland
US	English (US)

Other country versions upon request

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The manufacturer accepts no liability for errors or non-availability, and reserves the right to change specifications without prior notice.  
Technical data relates to product specifications only.  
Features may differ from those described. Only drawings combined with product specifications shall be deemed binding.

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