



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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GENERAL PURPOSE

GP  
KEYBOARDS

PC/Windows™ Compatible

Foreign Language  
Layouts Available

Ergonomic Design

**CHERRY** 



# C H E R R Y   K E Y B O A R D S

Cherry's line of general purpose data entry keyboards combine unmatched reliability and precise key action with proven ergonomic design and comfort to provide the highest levels of performance, even during high speed or repeated actuation. With keyboards available in a variety of configurations and over 34 different language layouts, Cherry is able to offer a solution no matter what your application demands.

As the leader in mechanical and membrane keyswitch technologies, Cherry is able to offer a variety of solutions to match your particular keyboard needs. Our MX Series mechanical keyswitches incorporate our "Gold Crosspoint" contacts, which provide low initial contact resistance and favorable bounce characteristics. Their "crosspoint" design provides specific contact pressure and excellent switching reliability. They feature a 4mm full-travel design and offer a life expectancy of 50 million operations.

The mechanical ML keyswitch used in our notebook style keyboards incorporate a 3mm full-travel design and offer a life expectancy of over 20 million operations. Both the MX and ML keyswitches mount directly to the printed circuit board.

Cherry's "Full Travel Sealed Contact" (FTSC) technology provides outstanding performance at an affordable price. Cherry incorporates membrane design to reduce costs, while maintaining quality and reliability. Our FTSC products have a life expectancy of 50 million operations per key.



ADVANCED SOLUTIONS • RELIABLE PERFORMANCE

# KEYBOARD FEATURES

## G80-11900



**Compact 104-key IBM compatible keyboard with integrated touchpad for PC PS/2 systems**

**Dimensions:**  
16.3" x 7.6"

- Mechanical MX keyswitches with gold crosspoint contacts
- Integrated touchpad with two mouse buttons
- Compact, space-efficient size
- 104-key Microsoft Windows™ layout
- Available in beige

**G80-11900LPM US** . . . . . Laser-printed key caps, Y cable PS/2 and PS/2 interface  
**G80-11900LTM US** . . . . . Laser-printed key caps, Y cable PS/2 and PS/2 interface. Includes PS2-to-AT adapter and PS2-to-serial adapter

## G80-1800 G81-1800



**Compact 101-key or 104-key IBM compatible keyboard for PC XT, AT and PS/2 systems**

**Dimensions:**  
15.9" x 7.1"

- G80 — Mechanical MX keyswitches with gold crosspoint contacts
- G81 — FTSC (Full-Travel Sealed Contact) technology with membrane contacts
- 104-key Microsoft Windows layout available
- Available in beige or black

**G80-1800HAU** . . . . . 101-key, linear feel, two-shot molded key caps, AT interface, XT compatible, beige  
**G81-1800HBAUS** . . . . . 101-key, linear feel, two-shot molded key caps, AT interface, black  
**G81-1800HQAUS** . . . . . 101-key, linear feel, two-shot molded key caps, PS/2 interface, black  
**G81-1800LAAUS** . . . . . 101-key, linear feel, laser-printed key caps, AT interface, beige  
**G81-1800LPAUS** . . . . . 101-key, linear feel, laser-printed key caps, PS/2 interface, beige  
**G81-1800LAMUS** . . . . . 104-key (Microsoft Windows), linear feel, laser-printed key caps, AT interface, beige  
**G81-1800LPM US** . . . . . 104-key (Microsoft Windows), linear feel, laser-printed key caps, PS/2 interface, beige

## G80-3000 G81-3000



**Full-size 101-key or 104-key IBM compatible keyboard for PC XT, AT, PS/2 and USB systems**

**Dimensions:**  
18.5" x 7.7"

- G80 — Mechanical MX keyswitches with gold crosspoint contacts
- G81 — FTSC (Full-Travel Sealed Contact) technology with membrane contacts
- 104-key Microsoft Windows layout available
- USB version with downstream HUB available
- Available in beige or black

**G80-3000LAMUS** . . . . . 104-key (Microsoft Windows), linear feel, laser-printed key caps, AT interface, beige  
**G80-3000LUNUS** . . . . . 104-key (Microsoft Windows), linear feel, laser-printed key caps, USB interface, beige  
**G81-3000LADUS** . . . . . 101-key, linear feel, laser-printed key caps, AT interface, beige  
**G81-3000LPDUS** . . . . . 101-key, linear feel, laser-printed key caps, PS/2 interface, beige  
**G81-3000LANUS** . . . . . 104-key (Microsoft Windows), linear feel, laser-printed key caps, AT interface, beige  
**G81-3000LPNUS** . . . . . 104-key (Microsoft Windows), linear feel, laser-printed key caps, PS/2 interface, beige  
**G81-3000LUNUS** . . . . . 104-key (Microsoft Windows), linear feel, laser-printed key caps, USB interface, beige  
**G81-3504LAAUS** . . . . . 104-key (Microsoft Windows), linear feel, laser-printed key caps, USB interface, 4-port HUB, beige



**G80-3700**



**21-key  
IBM compatible  
multi-function  
numeric keypad  
for PC AT and  
PS/2 systems**

**Dimensions:**  
4.3" x 7.7"

- Mechanical MX keyswitches with gold crosspoint contacts
- Four fully programmable and relegendable function keys
- 30 bytes of memory per key
- Interface for external keyboard

**G80-3700HAAUS** . . . . . Two-shot molded key caps,  
AT interface

**G80-3700HQAUS** . . . . . Two-shot molded key caps,  
PS/2 interface

**G81-8308**



**Full-size 130-key  
IBM compatible  
keyboard with  
24 freely  
programmable  
function keys,  
for PC AT and  
PS/2 systems**

**Dimensions:**  
18.5" x 8.7"

- Full Travel Sealed Contact (FTSC) technology with membrane contacts
- 24 freely programmable and relegendable keys with ten layers of functionality
- 32 characters per key programming capability
- Digital display to identify programming level

**G81-8308LAAUS** . . . . . 130-key, laser-printed key caps, AT interface, beige

**G81-8308LPAUS** . . . . . 130-key, laser-printed key caps, PS/2 interface, beige

**G83-6101  
G83-6104**



**Full-size 101-key  
or 104-key  
IBM compatible  
keyboard for  
PC AT and  
PS/2 systems**

**Dimensions:**  
18" x 6.7"

- Membrane switch contacts with single rubber sheet to provide a distinct, tactile feel
- 104-key Microsoft Windows layout available
- Laser etching of customer logo artwork available
- Spill-resistant version available

**G83-6101LADUS** . . . . . 101-key, laser-printed key caps, AT interface, beige

**G83-6101LPDUS** . . . . . 101-key, laser-printed key caps, PS/2 interface, beige

**G83-6104LANUS** . . . . . 104-key (Microsoft Windows), laser-printed key caps,  
AT interface, beige

**G83-6104LPNUS** . . . . . 104-key (Microsoft Windows), laser-printed key caps,  
PS/2 interface, beige

**G83-6104LUNUS** . . . . . 104-key (Microsoft Windows), laser-printed key caps,  
USB interface, beige

**G83-6300LANUS** . . . . . 104-key (Microsoft Windows), laser-printed key caps,  
spill-resistant, AT interface, beige

**G83-6300LPNUS** . . . . . 104-key (Microsoft Windows), laser-printed key caps,  
spill-resistant, PS/2 interface, beige

**G83-6700LPAUS-1** . . . . . 104-key (Microsoft Windows), laser-printed key caps,  
smart card, PS/2 interface, light gray

**G83-6700LQAUS-1** . . . . . 104-key (Microsoft Windows), laser-printed key caps,  
smart card, Y cable PS/2 and serial interface, light gray

**G83-6700**



**G84-4100**



**Notebook-style, 83-key or 86-key IBM compatible keyboard for PC XT, AT and PS/2 systems**

**Dimensions:**  
11.1" x 5.2"

- Mechanical ML keyswitches with gold crosspoint contacts, less than 12mm high with keycaps
- Lightweight: 1.32 lbs.
- Full 101-key or 104-key functionality
- Microsoft Windows keys available
- LED indicators for operating modes
- Ideal for applications with space limitations or mobile systems
- Available with or without housing and/or electronics
- Available in beige, gray and black

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<b>G84-4000QAU</b> . . . . .	83-key, beige tampo-printed key caps, no housing, no electronics
<b>G84-4001QAU</b> . . . . .	83-key, gray tampo-printed key caps, no housing, no electronics
<b>G84-4100PAAUS</b> . . . . .	83-key, tampo-printed key caps, AT interface, beige
<b>G84-4100PAMUS</b> . . . . .	86-key (Microsoft Windows), tampo-printed key caps, AT interface, beige
<b>G84-4100PPAUS</b> . . . . .	83-key, tampo-printed key caps, PS/2 interface, beige
<b>G84-4100PPMUS</b> . . . . .	86-key (Microsoft Windows), tampo-printed key caps, PS/2 interface, beige
<b>G84-4100PQU</b> . . . . .	83-key, tampo-printed key caps, AT interface, XT compatible, beige
<b>G84-4100PRAUS</b> . . . . .	83-key, tampo-printed key caps, PS/2 interface, black
<b>G84-4100QXAUS</b> . . . . .	83-key, with electronics, no housing, no cable
<b>G84-4101PAAUS</b> . . . . .	83-key, tampo-printed key caps, AT interface, gray
<b>G84-4101PPAUS</b> . . . . .	83-key, tampo-printed key caps, PS/2 interface, gray

**G84-4400**



**Notebook-style, 83-key compact IBM compatible keyboard with integrated PS/2 trackball for PC PS/2 systems**

**Dimensions:**  
14.6" x 5.5"

- Mechanical ML keyswitches with gold crosspoint contacts, less than 12mm high with keycaps
- Integrated 16mm trackball with two mouse buttons
- Full 101-key functionality
- Ideal for applications with space limitations or mobile systems
- Trackball adapter available for PS/2-to-serial conversion

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<b>G84-4400PPAUS</b> . . . . .	83-key, tampo-printed key caps, Y Cable PS/2 and PS/2 interface, beige
<b>007-1813</b> . . . . .	PS/2-to-serial conversion adapter

**G84-4700**



**Notebook-style, 21-key IBM compatible multi-function numeric keypad for PC PS/2 systems**

**Dimensions:**  
3.5" x 5.2"

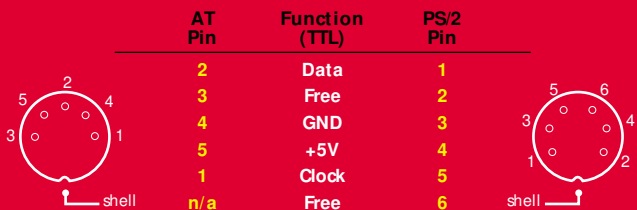
- Mechanical ML keyswitches with gold crosspoint contacts, less than 12mm high with keycaps
- Four fully programmable and relegendable function keys
- 32 characters per key programming capability
- Interface for external keyboard

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<b>G84-4700PPBUS</b> . . . . .	21-key, tampo-printed key caps, PS/2 interface, beige
<b>G84-4701PPBUS</b> . . . . .	21-key, tampo-printed key caps, PS/2 interface, gray

**Pin Assignments**

— Synchronous Interface



# GENERAL SPECIFICATIONS\*

## Electrical Specs

### Power Supply:

+5V/DC ±5%, <200 mA typical

### Temperature:

**Storage Temperature Range:**

-4°F to +140°F

**Operating Temperature Range:**

+32°F to +122°F

### Interface:

Bi-directional, synchronous serial.  
The keyboard communicates with the system via clock and data lines.

### Data Format:

IBM compatible, bi-directional

### Data Buffer:

All codes are buffered before transmission

### Self-Diagnostic Test:

After power-on or upon system request

### Rollover:

Alpha N-key rollover

### Automatic Repeat:

Keys have auto-repeat function

### Reset:

Keyboard automatically resets at power-on

## Approvals

### Radio Frequency Interfaces:

FCC, EN, CE

### Ergonomics:

ZH, ISO

### Safety:

UL, CSA, EN, VDE

### Susceptibility:

IEC



## Cherry Electrical Products

Toll-Free: 800-510-1689  
Phone: 262-942-6600  
Fax: 262-942-6566  
Web: www.cherrycorp.com

## Other Fine Cherry Keyboards

In addition to our line of **General Purpose Keyboards**, Cherry also has a wide selection of **Advanced Performance Keyboards** featuring value-added options such as bar code decoders, magnetic stripe readers, and smart card readers/writers, programmable keys, and more. With Cherry's unique, menu-driven approach, you can virtually build a "custom" keyboard to fit your exact requirements.



G81-8003

The chart below shows just a sample of our wide selection. For a complete product brochure on Cherry Advanced Performance Keyboards, contact Cherry today.

Part Number	Overall Dimensions	Total Number of Keys	Programmable Keys	Relegendable Key Caps	Touchpad w/ Mouse Buttons	Magnetic Stripe Reader	Smart Card Readers/Writers	Plug-ins (SAM)	Biometrics (Finger Print)	Bar Code Decoder	RS232 Port	Key Lock
G80-1950	12.6" x 8.6"	105	105	105		x				x	x	
G80-7009	15.9" x 8.7"	113	52	33		x	x	x		x		
G80-8109	18.5" x 8.7"	120	59	41	x	x	x	x		x		
G80-8113	18.5" x 8.7"	120	59	41	x	x				x	x	
G80-8200	18.5" x 8.7"	120	59	48		x				x	x	
G80-8202	18.5" x 8.7"	120	59	48		x	x	x		x		
G80-8212	18.5" x 8.7"	120	59	48		x				x	x	x
G81-7000	15.9" x 8.7"	104	43	▲		x				x	x	
G81-7002	15.9" x 8.7"	104	43	▲		x	x	x		x		
G81-7005	15.9" x 8.7"	104	43	▲			x	x		x		
G81-8000	18.5" x 8.7"	104	43	▲		x				x	x	
G81-8001	18.5" x 8.7"	104	43	▲		x	x	x		x		
G81-8002	18.5" x 8.7"	104	43	▲		x	x	x		x		
G81-8003	18.5" x 8.7"	104	43	▲		x	x	x		x		
G81-8004	18.5" x 8.7"	104	43	▲			x	x		x		
G81-8005	18.5" x 8.7"	104	43	▲			x	x		x		
G81-8006	18.5" x 8.7"	104	43	▲			x	x		x		
G81-8008	18.5" x 8.7"	104	43	▲						x	x	
G81-12000	18.5" x 8.7"	104	43	▲			x	x	x			
G81-12100	18.5" x 8.7"	104	43	▲					x			
G83-6700	18.0" x 7.6"	104	0	0			x					

\*General specifications for information purposes only and may not apply to all Cherry keyboard products. Please consult the factory for further details.

▲ = 24 Relegendable Key Caps Optional