PROFESSIONAL.

CHERRY

ORIGINAL CHERRY.

THE POWER OF IDEAS
COMBINED WITH THE RELIABILITY OF EXPERIENCE …

CHERRY has developed and produced innovative input systems for computers since 1967. The difference in quality, reliability, durability and design is something you need to experience first-hand. No other manufacturer has more experience and knowledge worldwide. How does this benefit you, the customer? CHERRY products are synonymous with first-rate technology..

From the very beginning, CHERRY products have delighted customers and operators with uncompromising high quality and attractive ergonomic designs. In other words: CHERRY fulfils and exceeds the expectations of both professional and private users. With specially tailored input solutions for all areas.

Insist on original CHERRY …

PRODUCT FINDER (left table)

Model	Catalog page	Keyboard	Desktop	Mouse	Card reader	MX	FTSC	NTK	ML	ATK	SX	LPK	Combo (USB/PS/2)	PS/2	USB	USB receiver	16" Format	Wireless transmission	Codeset 3 support	Touchpad / Trackball	Programmable buttons	Chip card reader	Magnetic card reader	Contactless chip card reader	Biometric Fingerprint sensor	Software	Other
		PRODUCT TYPE				TECHNOLOGY							CONNECTION				FUNCTION										
OFFICE																											
JD-0500 / DW 5000	9		■									■			■			■									
G80-3850 / MX-BOARD 3.0	10	■				■									■												
JK-0600 / KW 6000	11	■									■				■			■									
G85-23100 / STREAM XT	12	■									■		■														
JK-0300 / STRAIT	13	■										■			■												
J82-16001 / K1	14	■										■		■	■												
G83-6104 / STANDARD	15	■			■										■												
G81-1800 / COMPACT	16	■		■															■		■						
G80-1865 / COMPACT	17	■			■								■		■				■		■						
JW-T0100 / MW 3000	19			■												■		■									
JW-T0300 / MW 2300	20			■												■		■									
JW-T0200 / MW 2100	21			■												■		■									
M-5400 / WHEEL MOUSE	22			■									■														
JM-0300-2 / GENTIX	23			■												■											Backlit sides and scroll
eHEALTH																											
EZN-4100 / EZCLEAN 4100	26	■							■				■														
EZN-5200 / EZCLEAN 5200	27	■							■				■				■		■								
J84-2120 / BACKLIT	28	■													■						■						NEMA 4 / Backlit
J84-4300 / WIPEKEY	29	■													■												NEMA 4
MW-2900 / WASHABLE MOUSE	30			■												■		■		■							
SECURITY																											
G83-6644 / SMARTBOARD	34	■						■							■							■	■				FIPS 201 Certified
G83-6744 / SMARTBOARD	35	■						■							■							■	■				FIPS 201 Certified
ST-1044UB / SMARTTERMINAL	36				■										■									■			FIPS 201 Certified
SR-4300 / SMARTREADER	37				■										■									■			FIPS 201 Certified

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CHERRY Professional (right table)

Model	Catalog page	Keyboard	Desktop	Mouse	Card reader	MX	FTSC	NTK	ML	ATK	SX	LPK	Combo (USB/PS/2)	PS/2	USB	RS232	16" Format	Wireless transmission	Codeset 3 support	Touchpad / Trackball	Programmable buttons	Chip card reader	Magnetic card reader	Contactless chip card reader	Biometric Fingerprint sensor	Software	Other
		PRODUCT TYPE				TECHNOLOGY							CONNECTION				FUNCTION										
INDUSTRIAL																											
G83-14401 / FingertipIDBoard	38	■							■						■								■		■		
G83-14501 / FingertipIDBoard	38	■							■						■										■		
M-4200 / FingertipIDMouse	39			■											■										■		
G84-4100 / COMPACT	42	■							■					■													
G84-4420 / TRACKBALL	43	■							■						■	■				■							
G84-4700 / KEYPAD	43	■							■				■	■	■						■				■		
G84-5200 / XS	44	■							■					■							■		■				
G84-5400 / XS	45	■							■						■	■					■	■	■				
G84-5500 / XS	45	■							■						■	■					■	■	■				
G80-11900 / TOUCHBOARD	46	■						■							■	■*	■				■	■			■		
J86-4400 / VANDAL PROOF	47	■													■												IP54
G86-52400 / INDUSTRIAL MINI	48	■										■			■						■						IP54
G86-62401 / INDUSTRIAL COMPACT	49	■										■			■						■						IP54
POS / POT / MOBILE																											
WHA-12001 / iTRANSIGO	53			■											■						■						xxx
G86-62431/-62461 / SPOS BIO	54	■													■					■	■	■		■			IP54
G86-61411/-61410 / SPOS	56	■													■					■	■	■			■		IP54
G86-63411/-63410 / SPOS	58	■													■					■	■	■			■		IP54
G86-71400 / LPOS	60	■													■					■	■	■					IP54
G86-51400 / MPOS	62	■													■					■		■					IP54
G81-7000/-8000 / MULTIBOARD	64	■			■									■	■					■		■			■		
G81-7040/-8040 / MULTIBOARD V2	66	■			■									■	■					■	■	■			■		
G80-8113 / MULTIBOARD	68	■			■									■	■					■		■			■		
G80-8200 / MULTIBOARD	69	■			■									■	■					■		■			■		

* only on select PS/2 versions, consult factory

OFFICE.
ORIGINAL CHERRY.

HIGH QUALITY KEYBOARDS AND MICE OPTIMIZED FOR DAILY OFFICE USE.

Reliability and ergonomics are vital. CHERRY has decades of experience in the development and production of high quality input devices.

Choose from many different technologies designed for any purpose. CHERRY is not only known for quality and durability, we also take pride in making exceptionally attractive products.

Regardless of which of our keyboards or mice you decide on, the CHERRY name guarantees excellent quality in terms of product development and manufacturing.

NEW

CHERRY DW 5000
WIRELESS DESKTOP

FACTS & FEATURES

→ High-quality, wireless keyboard with 10 hotkeys
→ Optical sensor technology (1500 dpi)
→ 3-button mouse, for both left-handed and right-handed operation
→ Battery status display in keyboard and mouse
→ Simple installation: no technical knowledge required
→ Interference-free, wireless 2.4 GHz technology (with a range of approx. 8 m)
→ Operation of several desktops (multi-station capability)
→ USB receiver

TECHNICAL DATA

Weight (incl. packaging)	approx. 1500 g
Dimensions	approx. 468 x 172 x 22 mm (keyboard) approx. 113 x 14 x 8 mm (mouse) approx. 590 x 210 x 51 (packaging)
Transmission range	approx. 8 m
Number of keys	105 + 10
Current Consumption	max. 5 mA (keyboard) max. 15 mA (keyboard)

PART NUMBER	COLOR	CONNECTION
JD-0500xx	Anthracite	USB

CHERRY MX-BOARD 3.0
CORDED KEYBOARD

FACTS & FEATURES

→ Original CHERRY MX module: Quality „Made in Germany" proven effective billions of times

→ MX module with Gold Crosspoint contacts for reliable contact capability and exemplary responsiveness

→ N-key rollover: Simultaneous operations of up to 14 keys without any key ghosting effects

→ Available in four different key confirmation types

→ Professional quality with a perfect key stroke: 50 million operations for each key

→ The integrated metal plate and extensive anti-slip protection ensure it remains robust

→ Detachable cable

→ Win-Key lock: Windows buttons can be disabled to prevent inadvertent operation

TECHNICAL DATA

Weight (incl. packaging)	approx. 1215 g
Dimensions	approx. 446 x 158 x 28 mm (keyboard) approx. 468 x 202 x 35 (packaging)
Length of cable	approx. 1,80 m
Number of keys	104 / 105 + 4
Current Consumption	max. 100 mA

PART NUMBER	COLOR	CONNECTION
G80-3850xx	Black	USB

CHERRY KW 6000
BLUETOOTH KEYBOARD

FACTS & FEATURES

→ For Apple® iPad, iPad2 and iPad3

→ Wireless keyboard (Bluetooth) with integrated lithium ion polymer battery

→ Ultra-flat and compact

→ Chargeable with USB charger cable

→ 9 hotkeys

→ Easy to install: requiring no technical knowledge

TECHNICAL DATA

Weight (incl. packaging)	approx. 498 g
Dimensions	approx. 261 x 128 x 9 mm (keyboard) approx. 300 x 192 x 20 mm (packaging)
Transmission range	approx. 10 m
Number of keys	71/72 + 9
Current Consumption	typ. 45 mA

PART NUMBER	COLOR	CONNECTION
JK-0600EU	Silver / Black	Bluetooth

STREAM XT
CORDED KEYBOARD

FACTS & FEATURES

→ Spill resistant: not sensitive to fluids

→ Plug & Play for easy commissioning with no software installation

→ Ultra-flat ergonomic top-design for fatigue-free work

→ Ultra silent: Whisper keystroke for low-noise typing

→ 6 HotKeys for comfortable volume control and the most important Mediaplayer functions

→ Standard keyboard layout (including cursor and number block)

→ Incl. adapter for PS/2 interface

→ GS approval

→ Distinguished with the Blaue Engel environmental label and the AGR seal of approval for ergonomic, back-friendly work.

TECHNICAL DATA

Weight (incl. packaging)	approx. 1205 g
Dimensions	approx. 472 x 176 x 18 mm (keyboard)
	approx. 485 x 255 x 63 mm (packaging)
Length of cable	approx. 1,80 m
Number of keys	104 / 105 + 6
Current Consumption	typ. 16 mA

PART NUMBER	COLOR	CONNECTION
G85-23100EU-2	Black	USB (PS/2 via adapter)

STRAIT
CORDED KEYBOARD

FACTS & FEATURES

→ Purist design for the office and living room

→ High-quality finish for lasting reliability

→ Whisper keystroke: ideal for everyday work

→ 5 HotKeys to control Media Player

→ USB connection for laptops and PCs

→ Plug & Play without installing any software

TECHNICAL DATA

Weight (incl. packaging)	approx. 1060 g
Dimensions	approx. 441 x 161 x 15 mm (keyboard)
	approx. 465 x 200 x 27 mm (packaging)
Length of cable	approx. 1,80 m
Number of keys	103 + 5
Current Consumption	typ. 45 mA

PART NUMBER	COLOR	CONNECTION
JK-0300EU	White / Silver	USB

K1
OFFICE KEYBOARD

FACTS & FEATURES

→ Comfortable key action
→ Space-efficient compact keyboard
→ Abrasion-proof legends on keycaps
→ CHERRY quality at an affordable price

TECHNICAL DATA	
Weight (incl. packaging)	approx. 800 g
Dimensions	approx. 460 x 165 x 32 mm (keyboard)
	approx. 485 x 190 x 36 mm (packaging)
Length of cable	approx. 1,80 m
Number of keys	104
Current Consumption	typ. 40 mA
Service life of the standard individual keys	> 10 million keystrokes

PART NUMBER	COLOR	CONNECTION
J82-16001LPNEU-0	Light grey	PS/2
J82-16001LPNEU-2	Black	PS/2
J82-16001LUNEU-0	Light grey	USB
J82-16001LUNEU-2	Black	USB

STANDARD
CORDED KEYBOARD

FACTS & FEATURES

→ Compact, corded standard keyboard
→ Easy to clean keys with scratch-resistant inscriptions
→ NTK technology for pleasantly soft operation of the keys
→ Uniform switching characteristics (elastomer keys with membrane contact switches)
→ 20 million operations for each key
→ Can be recycled
→ USB or PS/2 connection

TECHNICAL DATA	
Weight (incl. packaging)	approx. 810 g
Dimensions	approx. 458 x 170 x 42 mm (keyboard)
	approx. 493 x 210 x 47 mm (packaging)
Length of cable	approx. 1,75 m
Number of keys	104
Current Consumption	typ. 16 mA

PART NUMBER	COLOR	NUMBER OF KEYS	CONNECTION
G83-6104LPNEU-0	Light grey	104 (no logo)	PS/2
G83-6104LPNEU-2	Black	104 (no logo)	PS/2
G83-6104LUNEU-0	Light grey	104	USB
G83-6104LUNEU-2	Black	104	USB

COMPACT
CORDED KEYBOARD

FACTS & FEATURES

→ Mechanical individual keys with membrane contact switches (FTSC technology)

→ High quality and compact 19" PC keyboard - space-saving and ergonomic

→ Codeset 3 support (PS/2 connection only) e.g. for Unix computers

→ Robust and reliable

→ High-quality keyboard for professional use

→ Can also be delivered without „Windows® keys" (101/102 keys)

TECHNICAL DATA	
Weight (incl. packaging)	approx. 1600 g
Dimensions	approx. 405 x 180 x 44 mm (keyboard) approx. 460 x 270 x 50 mm (packaging)
Length of cable	approx. 1,75 m
Number of keys	101 / 104
Current Consumption	typ. 16 mA

PART NUMBER	COLOR	CONNECTION	NUMBER OF KEYS
G81-1800LPAUS-0	Light grey	PS/2	101
G81-1800LPAUS-2	Black	PS/2	101
G81-1800LPMUS-0	Light grey	PS/2	104
G81-1800LPMUS-2	Black	PS/2	104
G81-1800LUMUS-0	Light grey	USB	104
G81-1800LUMUS-2	Black	USB	104

COMPACT
CORDED KEYBOARD

FACTS & FEATURES

→ Individual keys with Gold Crosspoint contacts (MX technology)

→ Perfect key feel

→ High quality and compact 16" PC keyboard – space-saving and ergonomic

→ High quality keyboard for outstanding typing performance, fulfilling even the highest requirements

→ Extremely long service life of individual keys

→ Great for gaming

→ 2 USB downstream Ports

TECHNICAL DATA	
Weight (incl. packaging)	approx. 1190 g
Dimensions	approx. 405 x 180 x 44 mm (keyboard)
Length of cable	approx. 1,75 m
Number of keys	104
Current Consumption	typ. 16 mA

PART NUMBER	COLOR	CONNECTION	KEYSWITCH TYPE
G80-1865LXNEU-2	Black	USB (PS/2 via adapter)	Tactile no Click (MX Brown)

NEW

CHERRY MW 3000
WIRELESS MOUSE

FACTS & FEATURES

→ Non-slip rubber on the sides

→ Nano USB receiver: able to stay in the notebook permanently

→ 5-button mouse: infrared sensor and adjustable resolution
   (1000/1750 dpi)

→ Optimized for use with the right hand

→ Interference-free, wireless 2.4 GHz technology
   (with a range of approx. 5 m)

→ On/off button, for additional energy saving

TECHNICAL DATA

Number of keys	5 buttons
Weight (incl. packaging)	approx. 208 g
Dimensions	approx. 106 x 68 x 39 mm
Transmission range	approx. 5 m
Resolution	1000 / 1750 dpi (adjustable)
Current Consumption	max. 4,5 mA

PART NUMBER	COLOR	CONNECTION
JW-T0100	Black	USB

CHERRY MW 2300
WIRELESS MOUSE

FACTS & FEATURES

→ 5-button mouse: infrared sensor and adjustable resolution
(1000/1500/2000 dpi)

→ Long battery lifespan thanks to energy-efficient infrared sensor

→ Nano USB receiver: able to stay in the notebook permanently

→ Optimized for both left-handed and right-handed operation

→ Simple installation: no technical knowledge required

→ Interference-free, wireless 2.4 GHz technology
(with a range of approx. 10 m)

TECHNICAL DATA

Number of keys	5 buttons
Weight (incl. packaging)	approx. 227 g
Dimensions	approx. 120 x 76 x 38 mm
Transmission range	approx. 10 m
Resolution	1000 / 1500 / 2000 dpi (adjustable)
Current Consumption	max. 7 mA

PART NUMBER	COLOR	CONNECTION
JW-T0300	Black	USB

CHERRY MW 2100
WIRELESS MOUSE

FACTS & FEATURES

→ 3-button mouse: infrared sensor and adjustable resolution
(1000/1500/2000 dpi)

→ 18-month battery lifespan thanks to energy-efficient infrared sensor

→ Nano USB receiver: able to stay in the notebook permanently

→ Optimized for both left-handed and right-handed operation

→ Simple installation: no technical knowledge required

→ Interference-free, wireless 2.4 GHz technology
(with a range of approx. 10 m)

TECHNICAL DATA

Number of keys	3 buttons
Weight (incl. packaging)	approx. 208 g
Dimensions	approx. 100 x 59 x 38 mm
Transmission range	approx. 10 m
Resolution	1000 / 1500 / 2000 dpi (adjustable)
Current Consumption	max. 7 mA

PART NUMBER	COLOR	CONNECTION
JW-T0200	Black	USB

WHEEL MOUSE
CORDED OPTICAL MOUSE

FACTS & FEATURES

→ Optical sensor for precise movement of the mouse pointer

→ Compatible for PCs and Macs via USB connection

→ Precise performance with 1000 dpi resolution

→ Easy scrolling with the PowerWheel

→ Elegant Design, ideal for right- and left-handed users

→ Problem-free connection and disconnection, including during operation

→ Incl. adapter for PS/2 interface

TECHNICAL DATA

Number of keys	3 buttons
Weight (incl. packaging)	approx. 155 g
Dimensions	approx. 121 x 63 x 38 mm
Length of cable	approx. 1,80 m
Resolution	1000 dpi
Other	White box

PART NUMBER	COLOR	CONNECTION
M-5400	Light grey	USB (PS/2 via adapter)
M-5450	Black	USB (PS/2 via adapter)

GENTIX
CORDED OPTICAL ILLUMINATED MOUSE

FACTS & FEATURES

→ Reliable corded mouse with three keys and optical sensor

→ Striking light on sides and scroll wheel

→ Rubber side surfaces and rubber scroll wheel offer improved grip

→ Symmetrical design: suitable for left and right-handed users

→ High-resolution optical sensor with 1000 dpi resolution for precise and flowing cursor control

→ 1.8 m cable with USB connection for use on the laptop and PC

TECHNICAL DATA

Number of keys	3 buttons
Weight (incl. packaging)	approx. 164 g
Dimensions	approx. 112 x 69 x 35 mm
Length of cable	approx. 1,80 m
Resolution	1000 dpi
Current Consumption	max. 100 mA

PART NUMBER	COLOR	CONNECTION
JM-0300	Black	USB

eHEALTH.
ORIGINAL CHERRY.

SPECIAL KEYBOARDS AND READERS OPTIMIZED FOR USE IN HEALTH CARE.

Proven solutions are vital. CHERRY has decades of experience in the development and production of high quality specialist input devices.

CHERRY is an innovator in this field. We are the only manufacturer that enables the new German health insurance cards to be read directly in a keyboard. CHERRY supplies a highly specialized range of keyboards and terminals for the health care branch.

Whatever you desire for your eHealth applications, CHERRY can develop the custom solution to suit your needs.

EZ CLEAN™ 4100
eHEALTH KEYBOARD

FACTS & FEATURES

→ Mechanical – CHERRY ML keyswitch technology with Gold Crosspoint contacts
→ Combo interface: USB with PS/2 adapter
→ 2 Year warranty on keyboard
→ 1 Year limited warranty on cover assembly
→ Compact, ultra slim, 83 keys, US key layout
→ Soft, flat, easy to clean silicone cover
→ 20 million key operations (keyboard)
→ 10 million key operations (cover)

TECHNICAL DATA

Dimensions	approx. 297 x 147 x 27 mm (keyboard)
Length of cable	approx. 2,50 m
Interface	USB / PS/2 combined
Power input	typ. 16 mA
Keyboard layout	86 key layout with Windows® keys

PART NUMBER	COLOR	CONNECTION
EZN-4100LCMUS-2	Black	USB (PS/2 via adapter)
KBCF-41002	Silicone Cover	

EZ CLEAN™ 5200
eHEALTH KEYBOARD

FACTS & FEATURES

→ Flat snap on silicone cover allows for easy cleansing and infection control
→ Cover tested to withstand most common hospital disinfectants
→ Individual keys with Gold Crosspoint contacts (ML technology)
→ Designed for continuous usage: over 20 million operation
→ Ideal for limited space and 15" applications
→ Plug and Play
→ Supports Code Set 3 and Unified POS
→ Pluggable feet for adjusting the tilt of the keyboard

TECHNICAL DATA

Dimensions	approx. 297 x 147 x 27 mm (keyboard)
Interface	USB with PS/2 Adapter
Power input	typ. 25 mA
Keyboard layout	103 (international) / 104 (European)

PART NUMBER	COLOR	CONNECTION
Consult Factory	Black	USB (PS/2 via adapter)

Contact CHERRY for more details

BACKLIT
WASHABLE KEYBOARD

FACTS & FEATURES

→ Compact, unique, easy-to-clean
→ Rugged, sealed, single piece silicone key matrix prevents trapped bacteria
→ NEMA-4 rated for fluid resistance
→ Suitable for use with common hospital chemicals and disinfectants
→ CLEAN key temporarily disables keys, allowing rapid cleaning without PC disconnect and quick resumption of usage
→ Integrated, sealed pointing device—no mouse needed
→ 3 backlit settings for illumination intensity
→ Pre-tapped mounting holes for easy installation

TECHNICAL DATA

Interface	USB 1.1
Dimensions	approx. 290 x 163 x 48 mm (keyboard) approx. 310 x 202 x 53 mm (packaging)
Length of cable	approx. 1,10 m
Compact size	83 position US key layout
Current Consumption	typ. 250 mA with backlighting at max brightness
Technology	Feedback: tactile
Material	Industrial silicon rubber
Mounting	Vesa mount

PART NUMBER	COLOR	CONNECTION
J84-2120LUAUS-2	Black	USB

WIPEKEY
IP55 KEYBOARD

FACTS & FEATURES

→ Membrane technology provides dust, dirt, and jetting water protection
→ Designed for continuous use – more than 10 million key operations
→ High reliability and uniquely precise tactile keying
→ Full 85 US key layout
→ Ultra slim: overall height only 19 mm
→ Usable with standard drivers of the operating system
→ Ideal for use with space limitations
→ IP55 pointing device and key field

TECHNICAL DATA

Interface	USB 2.0
Dimensions	approx. 370 x 139 x 20 mm (keyboard) approx. 396 x 210 x 43 mm (packaging)
Length of cable	approx. 1,50 m
Compact size	85 position US key layout
Current Consumption	typ. 40 max
Keys life	10 million operations

PART NUMBER	COLOR	CONNECTION
J84-4300LUAUS-2	Black	USB

WASHABLE MOUSE
CORDED MOUSE

FACTS & FEATURES

→ Compact, unique, easy-to-clean
→ Rugged, sealed, single piece silicone prevents trapped bacteria
→ NEMA-4 rated for fluid resistance
→ Suitable for use with common hospital chemicals and disinfectants
→ Hypo-allergenic, silicone with a soft feel
→ Plug and Play
→ 3 scroll buttons allow for quick and easy navigation

TECHNICAL DATA

Interface	USB 2.0
Length of cable	approx. 4,5 feet
Technology	Silicone rubber
Humidity	100 %
MTBF	20,000 hours

PART NUMBER	COLOR	CONNECTION
MW-2900	Black	USB 2.0

Contact CHERRY for more details

SECURITY.
ORIGINAL CHERRY.

UP-TO-DATE SECURITY TECHNOLOGY – SEAMLESSLY INTEGRATED IN KEYBOARDS AND INPUT DEVICES.

Innovative technology for the highest requirements. CHERRY has decades of experience in the development and production of secure input devices.

The very latest security technology is available from CHERRY. We offer a wide range of uncompromising products and support you in the planning and implementation of your requirements. Of course, this includes all the important approval regulations and directives.

Whatever you require for your security needs – you can rely on CHERRY. Input devices that simply couldn't be more practical and reliable.

SMARTBOARD
CORDED KEYBOARD

FACTS & FEATURES

→ USB 2.0
→ Secure PIN entry
→ PC/SC Smart card reader
→ Ct-Api and OCF support
→ Protocols: T=0, T=1, S=8, S=9, S=10
→ CCID compatible
→ Reading/writing ISO 781-compliant chipcards
→ EMV 2000 Level 1 approved
→ FIPS 201 Certified and TAA Compliant

TECHNICAL DATA

Weight (incl. packaging)	approx. 840 g
Dimensions	approx. 458 x 170 x 52 mm (keyboard)
	approx. 495 x 200 x 55 mm (packaging)
Length of cable	approx. 1,80 m
Number of keys	104 / 105
Current Consumption	max. 100 mA
Interface	USB
Protocols	T=0 and T=1, S=8, S=9 and S=10
Mating cycles (chip card reader)	approx. 100,000

PART NUMBER	COLOR	CONNECTION
G83-6644LUAEU-2	Black	USB

SMARTBOARD
CORDED KEYBOARD

FACTS & FEATURES

→ Common Criteria EAL 3+ certified for electronic signatures
→ Secure PIN entry
→ PC/SC Smart card reader
→ CT-Api and OCF support
→ Protocols: T=0, T=1, S=8, S=9, S=10
→ EMV 2000 Level 1 approved
→ CCID compatible
→ Reading/writing ISO 781-compliant chipcards
→ FIPS 201 Certified and TAA Compliant

TECHNICAL DATA

Weight (incl. packaging)	approx. 1500 g
Dimensions	approx. 458 x 195 x 54 mm (keyboard)
	approx. 493 x 255 x 58 mm (packaging)
Length of cable	approx. 1,75 m
Number of keys	104 / 105
Current Consumption	max. 100 mA
Interface	USB
Protocols	T=0, T=1, S=8, S=9, S=10
Mating cycles (chip card reader)	approx. 100,000

PART NUMBER	COLOR	CONNECTION
G83-6744LUAUS-0	Light grey	USB
G83-6744LUAUS-2	Black	USB

SMART TERMINAL
CORDED TERMINAL

FACTS & FEATURES

→ „Single-handed operation" through high weight and stable standing
→ Secure home banking with your HBCI chip card
→ Ideal for access authorisation and data encryption
→ High-quality USB smart card reader
→ CardMan 3121 compatibly
→ USB 2.0-compatible
→ PC/SC Smart card reader
→ CT-Api and OCF support
→ Protocols: T=0, T=1, S=8, S=9, S=10
→ CCID compatible
→ EMV 2000 Level 1 approved
→ FIPS 201 Certified and TAA Compliant

TECHNICAL DATA

Weight (incl. packaging)	approx. 350 g
Dimensions	approx. 75 x 51 x 55 mm (terminal) approx. 128 x 195 x 60 mm (packaging)
Length of cable	approx. 1,75 m
Current Consumption	max. 100 mA
Interface	USB
Protocols	T=0, T=1, S=8, S=9, S=10
Mating cycles (chip card reader)	approx. 100,000

PART NUMBER	COLOR	CONNECTION
ST-1044UB	Light grey / Black	USB

SMART READER
CHIP CARD READER

FACTS & FEATURES

→ ExpressCard™ 54 chip card reader for laptops
→ PC/SC chip card reader
→ CT-Api and OCF suppor
→ EMV 2000 terminal Level 1 approved
→ Reading/writing ISO 7816 compliant chip cards
→ For Windows 7, 2008, Vista, 2003, XP, 2000, Linux, MAC OS X
→ FIPS 201 and TAA Compliant Certified

TECHNICAL DATA

Dimensions	approx. 75 x 54 x 5 mm (reader)
Interface	ExpressCard™ with 12 Mbps
Protocols	T=0, T=1, S=8, S=9, S=10

PART NUMBER	COLOR	CONNECTION
SR-4300	Silver	ExpressCard™

FINGERTIP™ ID BOARD
CORDED KEYBOARD

FACTS & FEATURES

→ USB keyboard with fingerprint sensor and an optional PC/SC chip card reader

→ Capacitive TCS1 fingerprint sensor from UPEK with TouchChip® technology 256 x 360 pixels

→ PC/SC chip card reader, CardMan 3121 compatible (for G83-14400 only)

→ For Windows 7, 2008, Vista, 2003, XP, 2000, MAC OS X

TECHNICAL DATA	
Weight (incl. packaging)	approx. 1500 g
Dimensions	approx. 455 x 195 x 54 mm (keyboard)
	approx. 493 x 255 x 59 mm (packaging)
Length of cable	approx. 1,75 m
Number of keys	104 / 105
Current Consumption	max. 150 mA
Connection	USB
Mating cycles (chip card reader)	approx. 100,000

PART NUMBER	COLOR	CHIP CARD READER	SOFTWARE
G83-14401LPBEU-2	Black	Yes	Protector Suite Demo
G83-14501LPBEU-2	Black	No	Protector Suite Demo

FINGERTIP™ ID MOUSE
CORDED MOUSE

FACTS & FEATURES

→ AuthenTec's patented active capacitance sensing technology delivers a higher signal-to-noise ratio than passive sensing

→ Incorporates AuthenTec TCS2 TouchChip® sensor

→ Resistant to electical surge

→ Matching on device possible

→ Template on device possible

TECHNICAL DATA	
Number of keys	3 buttons
Weight (incl. packaging)	approx. 185 g
Dimensions	approx. 127 x 67 x 41 mm (mouse)
	approx. 135 x 90 x 48 mm (packaging)
Length of cable	approx. 1,80 m
Resolution	800 dpi
Fingerprint sensor resolution	508 dpi

PART NUMBER	COLOR	CONNECTION
M-4230	Silver / Black	USB

INDUSTRIAL.
ORIGINAL CHERRY.

ROBUST KEYBOARDS AND INPUT DEVICES
THAT YOU CAN RELY ON ANYTIME, ANYWHERE.

With the specially robust and durable products from CHERRY.
Our decades-long experience in the development and production
of input devices for industry speaks for itself.

CHERRY optimizes industrial products for especially tough operating
environments. Durability and performance are top priorities for us.
And, of course, integration possibilities – there are CHERRY products
for practically every task and usage environment.

Regardless of your operating environment, CHERRY has the reliable
products and solutions to withstand the test of time.

COMPACT
CORDED KEYBOARD

GENERAL FACTS & FEATURES

→   Individual keys with Gold Crosspoint contacts (ML technology)
→   Designed for continuous usage: over 20 million operations per key
→   High degree of reliability and unique, precise keystroke feel
→   Ideal for limited space and 11" applications
→   Can be used with the standard drivers of the operating system

FACTS & FEATURES · G84-4100

→   Also available without Windows® keys (83/86 keys)
→   All the functions of a standard keyboard

TECHNICAL DATA

Dimensions	approx. 282 x 132 x 26 mm (keyboard)
Interface	USB, PS/2
Power input	USB: typ. 16 mA / PS/2: typ. 4 mA

PART NUMBER	COLOR	CONNECTION	NUMBER OF KEYS
G84-4100LCMUS-0	Light Grey	USB (PS/2 via adapter)	86
G84-4100LCMUS-2	Black	USB (PS/2 via adapter)	86
G84-4100LPAUS-0	Light Grey	PS/2	83
G84-4100PRAUS	Black (tampo print)	PS/2	83
G84-4100PTAUS	Black (tampo print)	USB (PS/2 via adapter)	86
G84-4100LCAUS-0	Light Grey	USB (PS/2 via adapter)	83
G84-4101PPAUS	Dark Grey	PS/2	83

TRACKBALL
CORDED KEYBOARD

FACTS & FEATURES · G84-4420

→   Integrated optical trackball plus 2 mouse buttons
→   Extremely flat – total height of just 20 mm and lightweight
→   83/84 keyboard layout with all the functions of a standard keyboard

TECHNICAL DATA

Dimensions	approx. 370 x 139 x 20 mm (keyboard)
Interface	USB or PS/2
Power input	typ. 45 mA

PART NUMBER	COLOR	CONNECTION	SCANNING
G84-4420LUBEU-0	Light Grey	USB	Optical
G84-4420LUBEU-2	Black	USB	Optical
G84-4420LPBEU-0	Light Grey	PS/2	Optical
G84-4420LPBEU-2	Black	PS/2	Optical

KEYPAD
CORDED KEYPAD

FACTS & FEATURES · G84-4700

→   21 keys, 4 of them are relegendable
→   Variable decimal field separators, such as (.), (,), (00), (000)
→   Additional programming of software macros (USB only)

PS/2 models
→   20 keys can be physically programmed (internal memory)
→   External standard keyboard can be connected to built-in PS/2 socket

TECHNICAL DATA

Dimensions	approx. 90 x 132 x 36 mm (keyboard)
Interface	USB or PS/2

PART NUMBER	COLOR	CONNECTION
G84-4700LPBUS-2	Black	PS/2
G84-4700LCUS-0	Light Grey	USB
G84-4700LUCUS-2	Black	USB

GENERAL FACTS & FEATURES

→ High degree of reliability and precise keystroke feel due to individual keys with Gold Crosspoint contacts (CHERRY ML technology)

→ Ideal for continuous usage due to the long service life in excess of 20 million key operations for each key

→ Compact dimensions and very low overall height, ideal for restricted spaces and for 15" applications

→ Standard measurements and installation dimensions of the complete XS product range – the keyboard can be adapted to any application

→ Lightweight – for applications where every gram counts

→ Plug & Play – can be used with the operating system's standard drivers

→ Supports Code Set 3 and UnifiedPOS

→ Pluggable feet for adjusting the tilt of the keyboard

COMPLETE
CORDED KEYBOARD

FACTS & FEATURES · G84-5200

→ Complete layout with number pad.
Ideal for applications with frequent input of numbers

TECHNICAL DATA

Dimensions	approx. 374 x 139 x 18 mm (keyboard)
Length of cable	approx. 2,50 m
Interface	USB / PS/2 combined
Keyboard layout	103 (international) / 104 (European)
Power input	typ. 25 mA

PART NUMBER	COLOR	CONNECTION
G84-5200LCMEU-2	Black	USB (PS/2 via adapter)

TRACKBALL
CORDED KEYBOARD

FACTS & FEATURES · G84-5400

→ Optical trackball with two mouse buttons for easy cursor control

TECHNICAL DATA

Dimensions	approx. 374 x 139 x 20 mm (keyboard)
Length of cable	approx. 2,50 m
Interface	USB or PS/2
Keyboard layout	88 (international) / 89 (European)
Power input	typ. 35 mA

PART NUMBER	COLOR	CONNECTION
G84-5400LPMEU-2	Black	2 x PS/2
G84-5400LUMEU-2	Black	USB

TOUCHPAD
CORDED KEYBOARD

FACTS & FEATURES · G84-5500

→ High quality touchpad with two mouse buttons for convenient cursor control

TECHNICAL DATA

Dimensions	approx. 374 x 139 x 18 mm (keyboard)
Length of cable	approx. 2,50 m
Interface	USB or PS/2
Keyboard layout	88 (international) / 89 (European)
Power input	typ. 35 mA

PART NUMBER	COLOR	CONNECTION
G84-5500LPMEU-2	Black	2 x PS/2
G84-5500LUMEU-2	Black	USB

TOUCHBOARD
CORDED KEYBOARD

FACTS & FEATURES

→ Individual keys with Gold Crosspoint contacts (MX technology)

→ Designed for continuous usage: over 50 mill. confirmations per key

→ Robust and reliable

→ Space-saving and ergonomic

→ Ideal for limited space and 19" applications

→ Can be used with the standard drivers of the operating system

→ USB keyboard: the following keys can be programmed freely using KeyM@n software (software macros) in 3 levels (single confirmation in combination with „CTRL", in combination with „SHIFT"): function keys „F1"-"F12", „INSERT", „DELETE", „POSITION1", „END", „PAGE-UP", „PAGE-DOWN", „PRINT", „PAUSE", comma and zero in the numeric field.

TECHNICAL DATA	
Weight (incl. packaging)	approx. 1200 g
Dimensions	approx. 415 x 193 x 37 mm (keyboard) approx. 447 x 250 x 45 mm (packaging)
Length of cable	approx. 1,75 m
Number of keys	104 / 105
Current Consumption	PS/2: 35 mA (keyboard) / 3 mA (touchpad)
Touchpad	Resolution: 1000 dpi / 2 mouse keys

PART NUMBER	COLOR	CONNECTION KEYBOARD	CONNECTION TOUCHPAD
G80-11900LPMEU-0	Light grey	PS/2	PS/2
G80-11900LPMEU-2	Black	PS/2	PS/2
G80-11900LUMEU-0	Light grey	USB	-
G80-11900LUMEU-2	Black	USB	-
G80-11900LTMEU-0	Light grey	PS/2 w/AT	PS/2 w/ serial
G80-11900LTMEU-2	Black	PS/2 w/AT	PS/2 w/ serial

VANDAL PROOF
RUGGED KEYBOARD

FACTS & FEATURES

→ Durable stainless steel keytops and facia

→ 67-key US layout for public-access kiosk applications

→ Durable rubber mat switches with crisp tactile action

→ Ultra-rugged trackball

→ Meets IP67 standards when mounted in suitable enclosure

TECHNICAL DATA	
Dimensions	approx. 400 x 124 x 19 mm (keyboard)
Length of cable	approx. 1,80 m
Interfaca	USB 2.0
Compact size	67 position US key Layout
Trackball	Ball diameter; 38mm (1.5 inches) Trackball material; Phenolic lip seal: PTFE /rubber Resolution: 440 edges / revolution Reliability; 50,000 hrs MTBF
Keys	Tactile rubber mat switch / Typical operating force 130 gm / Travel 0.7mm

PART NUMBER	COLOR	CONNECTION
J86-4400LUAUS	Stainless Steel	USB

INDUSTRIAL MINI
CORDED KEYBOARD

FACTS & FEATURES

→ Reduced-size keyboard with QWERTY layout
→ Enhanced US 83-position key layout
→ Robust product design with IP 54 spill and
   dust resistant key field for harsh environments
→ Plug & Play configuration

TECHNICAL DATA

Dimensions	approx. 300 x 160 x 25 mm (keyboard)
	approx. 343 x 216 x 44 mm (packaging)
Length of cable	approx. 1,85 m
Interface	USB 2.0
Compact size	83 position key layout
Current input	typ. 35 mA

PART NUMBER	**COLOR**
G86-52400EUADAA	Black

INDUSTRIAL COMPACT
ALPHANUMERIC KEYBOARD LAYOUT

FACTS & FEATURES

→ Full alphanumeric layout including number pad
→ Enhanced 109 position key layout
→ IP54-rated spill and dust resistant key field
→ Touchpad with 2 mouse keys (optional)
→ Cut-out mounting capabilities (circumferential rim)
→ For Windows 7, Vista, XP, 2000 and Linux

TECHNICAL DATA

Dimensions	approx. 360 x 198 x 38 mm (keyboard)
	approx. 415 x 260 x 50 mm (packaging)
Length of cable	approx. 1,85 m
Interface	USB 2.0
Power input	max. 100 mA
Touchpad	Resolution: 1000 dpi
	2 switch-activated mouse buttons

PART NUMBER	**COLOR**
G86-62401EUADAA	Black
G86-62401EUAEAA	Light Grey

POS / POT / MOBILE.
ORIGINAL CHERRY.

**INDIVIDUAL INPUT DEVICES AND SOFTWARE SOLUTIONS
FOR POINT OF SALE SYSTEMS.**

Ergonomics, durability and high compatibility. CHERRY has decades
of experience in the development and production of input devices in the
sales area.

From customized keyboard products, terminals and readers to innova-
tive software solutions, CHERRY provides the technology of today and
tomorrow. We advise on the planning and integration of CHERRY products
and solutions in your POS / POTs and ensure maximum efficiency and
flexibility.

Whatever developments you are planning, CHERRY guarantees you
reliability and the highest performance levels.

NEW

iTRANSIGO™
MOBILE POS / POT TERMINAL

FACTS & FEATURES

→ Quickly converts your iPhone® or iPod touch® into a mobile payment/POS terminal

→ Pick from a selection of Apple® payment/POS applications

→ Fits all generations of iPod touch® and iPhone® 3/4

TECHNICAL DATA

Communication	Serial interface (RS232)
Magnetic Stripe Reader	3-Track encrypted
Printer	Width: 2″ Method: Direct thermal Speed: 80mm/sec
Scanner	2D imager

PART NUMBER	INCLUDES
WHA-10001EUAGAA	Power Supply, MSR, Printer
WHA-12001EUAGAA	Power Supply, MSR, Printer, 2D imager

SPOS BIO
ALPHANUMERIC KEYBOARD LAYOUT WITH TOUCHPAD

SPOS BIO
ALPHANUMERIC KEYBOARD WITH TOUCHPAD AND MSR

GENERAL FACTS & FEATURES

→ Integrates UPEK TCS2 TouchChip® Biometric Sensor

→ Multifunctional, fully programmable USB keyboard with extended alphanumeric keyboard layout. Optional magnetic card reader and touchpad

→ Full alphanumeric layout including number pad

→ Enhanced 106/117 position key layout

→ IP54-rated spill and dust resistant key field

→ Fully programmable keyboard

→ 3-track magnetic card reader with comprehensive programming options

→ Touchpad with 2 mouse keys (optional)

→ Flexible layout customization with exchangeable relegendable keys

→ Integrated memory

→ Cut-out mounting capabilities (circumferential rim)

→ For Windows 7, Vista, XP, 2000 and Linux

Programmable, inscribable keys

→ Accessory Kit with 1x2, 2x1, 2x2 multiple keys and key caps for flexible layout adjustment also available

→ Programming of all keys on up to 3 levels (using software macros)

Professional software

→ Physical programming (integrated memory) or via software macros with high performance configuration software CHERRY Tools

→ Plug & Play configuration

→ UPOS for Windows® and Linux; client-server architectures supported

→ Support for Windows® system functions

→ Remote and quick installation of the macro configuration using CHERRY Tools runtime software

TECHNICAL DATA

Dimensions	approx. 358 x 198 x 38mm (keyboard)
	approx. 415 x 259 x 71mm (packaging)
Length of cable	approx. 1,85m
Interface	USB 2.0
Power Input	max. 100mA
Magnetic Strip Reader Standards	ISO 7811/12, AAMVA, JIS
Read cycles	> 1 million cycles
Sensor	Resolution: 508 dpi
	Active array size 10.4 x 14.4 mm
Touchpad	Resolution: 1000 dpi
	2 switch-activated mouse buttons

PART NUMBER STANDARD +TOUPAD	COLOR	MAGNETIC CARD READER TRACKS	TOUCHPAD
G86-62430EUADAA	Black		-
G86-62431EUAEAA	Black		Yes

PART NUMBER STANDARD +TOUPAD +MSR	COLOR	MAGNETIC CARD READER TRACKS	TOUCHPAD
G86-62460EUADAA	Black	1+2+3	-
G86-62461EUAEAA	Black	1+2+3	Yes

SPOS
ALPHANUMERIC KEYBOARD LAYOUT WITH TOUCHPAD

SPOS
ALPHANUMERIC KEYBOARD LAYOUT

GENERAL FACTS & FEATURES

→ Multifunctional, fully programmable USB keyboard with extended alphanumeric keyboard layout. Optional magnetic card reader and touchpad

→ Full alphanumeric layout including number pad

→ IP54-rated spill and dust resistant key field

→ Fully programmable keyboard

→ 3-track magnetic card reader with comprehensive programming options

→ Touchpad with 2 mouse keys (optional

→ Flexible layout customization with exchangeable relegendable keys

→ Integrated memory

→ Cut-out mounting capabilities (circumferential rim)

→ For Windows 7, Vista, XP, 2000 and Linux

Programmable, inscribable keys

→ Accessory Kit with 1x2, 2x1, 2x2 multiple keys and key caps for flexible layout adjustment also available

→ Customer-specific layouts (on request)

→ Programming of all keys on up to 3 levels (using software macros)

Professional software

→ Physical programming (integrated memory) or via software macros with high-performance configuration software CHERRY Tools

→ Plug & Play configuration

→ UPOS for Windows® and Linux; client-server architectures supported

→ Support for Windows® system functions

→ Remote and quick installation of the macro configuration using CHERRY Tools runtime software

TECHNICAL DATA

Dimensions	approx. 358 x 198 x 38mm (keyboard)
Interface	USB 2.0
Power Input	max. 100mA
Magnetic Strip Reader Standards	ISO 7811/-12, AAAMVA, JIS others available on request
Read cycles	> 1 million cycles

PART NUMBER	COLOR	MAGNETIC CARD READER TRACKS	TOUCHPAD	NUMBER OF BUTTONS ALL	PROGRAMMABLE	RELEGENDABLE
G86-61400EUADAA	Black	-	-	135	135	54
G86-61400EUAEAA	Light Grey	-	-	135	135	54
G86-61401EUADAA	Black	-	Yes	123	123	60
G86-61401EUAEAA	Light Grey	-	Yes	123	123	60
G86-61410EUADAA	Black	1+2+3	-	135	135	54
G86-61410EUAEAA	Light Grey	1+2+3	-	135	135	54
G86-61411EUADAA	Black	1+2+3	Yes	123	123	60
G86-61411EUAEAA	Light Grey	1+2+3	Yes	123	123	60

SPOS
MATRIX KEYBOARD LAYOUT WITH TOUCHPAD

SPOS
MATRIX KEYBOARD LAYOUT

GENERAL FACTS & FEATURES

→ 142 / 130 keys matrix layout including number pad
→ IP54-rated spill and dust resistant key field
→ Fully programmable keyboard
→ 3-track magnetic card reader with comprehensive programming options
→ Touchpad with 2 mouse keys (optional)
→ Flexible layout customization with exchangeable relegendable keys
→ Comprehensive UPOS support
→ Integrated memory
→ Cut-out mounting capabilities (circumferential rim)
→ For Windows 7, Vista, XP, 2000 and Linux

Programmable, inscribable keys

→ Accessory Kit with 1x2, 2x1, 2x2 multiple keys and key caps for flexible layout adjustment also available
→ Customer-specific layouts (on request)
→ Programming of all keys on up to 3 levels (using software macros)

Professional software

→ Physical programming (integrated memory) or via software macros with high-performance configuration software CHERRY Tools
→ Plug & Play configuration
→ UPOS for Windows® and Linux; client-server architectures supported
→ Support for Windows® system functions
→ Remote and quick installation of the macro configuration using CHERRY Tools runtime software

TECHNICAL DATA

Dimensions	approx. 358 x 198 x 38mm (keyboard)
Interface	USB
Power Input	max. 100mA
Magnetic Strip Reader Standards	ISO 7811/-12, AAAMVA, JIS others available on request
Read cycles	> 1 million cycles

PART NUMBER	COLOR	MAGNETIC CARD READER TRACKS	TOUCHPAD	NUMBER OF BUTTONS ALL	PROGRAMMABLE	RELEGENDABLE
G86-63400EUADAA	Black	-	-	142	142	142
G86-63400EUAEAA	Light Grey	-	-	142	142	142
G86-63401EUADAA	Black	-	Yes	130	130	130
G86-63401EUAEAA	Light Grey	-	Yes	130	130	130
G86-63410EUADAA	Black	1+2+3	-	142	142	142
G86-63410EUAEAA	Light Grey	1+2+3	-	142	142	142
G86-63411EUADAA	Black	1+2+3	Yes	130	130	130
G86-63411EUAEAA	Light Grey	1+2+3	Yes	130	130	130

LPOS
ALPHANUMERIC KEYBOARD LAYOUT

LPOS
ALPHANUMERIC KEYBOARD LAYOUT, AVAILBLE WITH MSR AND/OR TOUCHPAD

GENERAL FACTS & FEATURES

→ Multifunctional, fully programmable USB keyboard with extended alpha-numeric keyboard layout. Optional magnetic card reader and touchpad

→ Full alphanumeric layout including number pad

→ IP54-rated spill and dust resistant key field

→ Fully programmable keyboard

→ 3-track magnetic card reader with comprehensive programming options

→ Touchpad with 2 mouse keys (optional)

→ Flexible layout customization with exchangeable relegendable keys

→ Integrated memory

→ Cut-out mounting capabilities (circumferential rim)

→ For Windows 7, Vista, XP, 2000 and Linux

Programmable, inscribable keys

→ Accessory Kit with 1x2, 2x1, 2x2 multiple keys and key caps for

flexible layout adjustment also available

→ Customer-specific layouts (on request)

→ Programming of all keys on up to 3 levels (using software macros)

→ Modifier keys can also be moved

→ Quick display of the key configuration using hotkey

Professional software

→ Physical programming (integrated memory) or via software macros with high performance configuration software CHERRY Tools

→ Plug & Play configuration

→ UPOS for Windows® and Linux; client-server architectures supported

→ Support for Windows® system functions

→ Remote and quick installation of the macro configuration using CHERRY Tools runtime software

TECHNICAL DATA

Dimensions	approx. 442 x 183 x 36mm (keyboard) approx. 493 x 249 x 46mm (packaging)
Length of cable	approx. 1,85 m
Interface	USB 2.0
Power Input	max. 100 mA
Magnetic Strip Reader Standards	ISO 7811/12, AAMVA, JIS
Read cycles	> 1 million cycles
Touchpad	Resolution: 1000 dpi 2 switch-activated mouse buttons

PART NUMBER	COLOR	MAGNETIC CARD READER TRACKS	TOUCHPAD
G86-71400EUADAA	Black	–	–
G86-71400EUAEAA	Light Grey	–	–
G86-71401EUADAA	Black	–	Yes
G86-71401EUAEAA	Light Grey	–	Yes
G86-71410EUADAA	Black	1+2+3	–
G86-71410EUAEAA	Light Grey	1+2+3	–
G86-71411EUADAA	Black	1+2+3	Yes
G86-71411EUAEAA	Light Grey	1+2+3	Yes

MPOS
ALPHANUMERIC KEYBOARD LAYOUT WITH MSR

GENERAL FACTS & FEATURES

→ Reduced-size keyboard with QWERTY layout

→ Enhanced US 83-position key layout

→ Robust product design with IP 54 spill and dust resistant
   key field for harsh environments

→ Plug & Play configuration for all common POS features

→ Unique function enhancement with 'CHERRY Tools' virtual programming

→ Fully programmable keyboard for quick function calls

→ Option for unlimited programmability of all keys in up to
   3 layers provides convenient data access

→ High performance 3-tack magnetic stripe reader
   with freely programmable headers and terminators for each track

→ Powerful 'CHERRY Tools' configuration software allows for
   quick product set up and configuration

→ Comprehensive UPOS support for Windows and Linux support
   of client-server architectures

TECHNICAL DATA

Dimensions	approx. 302 x 160 x 25mm (keyboard)
	approx. 343 x 216 x 44mm (packaging)
Length of cable	approx. 1,85 m
Interface	USB 2.0
Current Input	typ. 35 mA
Magnetic Strip Reader Standards	ISO 7811/12, AAMVA, JIS
Read cycles	> 1 million cycles
Compact size	83 position key layout

PART NUMBER	COLOR	MAGNETIC CARD READER TRACKS
G86-51410EUADAA	Black	1+2+3

MULTIBOARD
COMPACT KEYBOARD

MULTIBOARD
STANDARD KEYBOARD

GENERAL FACTS & FEATURES

- → Available as a standard or compact version
- → Mechanical individual keys (CHERRY FTSC technology)
- → Designed for continuous usage: over 50 million operations per key
- → Programmable magnetic card reader
- → Integrated memory
- → OPOS and JavaPOS for Windows® and Linux
- → Supports client-server architectures
- → G81-7000 as a space-saving model – only 405 mm wide

PS/2 keyboard
- → 43 programmable keys

USB keyboard
- → Fully programmable keyboard
- → Statistics provided via WMI

- → Programming type can be selected – physically (memory) or via software macros

Magnetic card reader
- → 3 track reader
- → Freely-programmable header and terminator per track
- → Filtering and replacement of magnetic card data (USB keyboard)
- → Adjustable transmission of the start and end characters (sentinels) (USB keyboard)
- → Freely selectable output sequence of the tracks (USB keyboard)
- → Optional output of LRC bytes (USB keyboard)
- → ALT sequence programming (USB keyboard)
- → For Windows 7, Vista, XP, 2000 and Linux

TECHNICAL DATA

Dimensions	approx. 405 x 220 x 64 mm (G81-7000)
	approx. 470 x 220 x 64 mm (G81-8000)
Length of cable	approx. 1,85 m
Interface	PS/2 or USB
Power Input	PS/2: 35 mA
	USB: max. 100 mA
Magnetic card reader Decoding	Keyboard scan codes
Magnetic card reader Standards	ISO 7811/-12, AAMVA, Gemini, JIS 1 others available on request
Magnetic head	> 1 million read cycles

PART NUMBER COMPACT	COLOR	MAGNETIC CARD READER TRACKS	CONNECTION	BARCODE SCANNER PORTS
G81-7000LPAUS-0	Light Grey	1+2+3	PS/2	Yes
G81-7000LPAUS-2	Black	1+2+3	PS/2	Yes
G81-7000LPDUS-0	Light Grey	1+2+3	PS/2	No
G81-7000LPDUS-2	Black	1+2+3	PS/2	No
G81-7000LUVEU-0	Light Grey	1+2+3	USB	No
G81-7000LUVEU-2	Black	1+2+3	USB	No

PART NUMBER STANDARD	COLOR	MAGNETIC CARD READER TRACKS	CONNECTION	BARCODE SCANNER PORTS
G81-8000LPAUS-0	Light Grey	1+2+3	PS/2	Yes
G81-8000LPAUS-2	Black	1+2+3	PS/2	Yes
G81-8000LPDUS-0	Light Grey	1+2+3	PS/2	No
G81-8000LPDUS-2	Black	1+2+3	PS/2	No
G81-8000LUVEU-0	Light Grey	1+2+3	USB	No
G81-8000LUVEU-2	Black	1+2+3	USB	No

V2 MULTIBOARD
COMPACT KEYBOARD

V2 MULTIBOARD
FULL SIZE STANDARD KEYBOARD

GENERAL FACTS & FEATURES

→ Available as a standard or compact version
→ Mechanical individual keys (CHERRY FTSC technology)
→ Designed for continuous usage: over 50 million operations per key
→ Programmable magnetic card reader
→ PC/SC chip card reader with EMV 2000 approval
→ Fully programmable USB 2.0 keyboard
→ Integrated memory
→ Statistics provided via WMI
→ Programming type can be selected – physically (memory) or via software macros with CHERRY Tools
→ OPOS and JavaPOS for Windows® and Linux
→ Supports client-server architectures
→ G81-7040 as a space-saving model – just 405 mm wide

Magnetic card reader
→ 3-track reader
→ Freely-programmable header and terminator per track
→ Filtering and replacement of magnetic card data
→ Adjustable transmission of the start and end characters (sentinels)
→ Freely-selectable output sequence of the tracks
→ Optional output of LRC bytes
→ ALT sequence programming

Chip card reader SmartTerminal EU44
→ PC/SC chip card reader with CT-API support
→ Omnikey CardMan 3121 compatible
→ EMV 2000 Level 1 approval
→ Contact: landing contact

TECHNICAL DATA

Dimensions	approx. 405 x 220 x 64 mm (G81-7040)
	approx. 470 x 220 x 64 mm (G81-8040)
Length of cable	approx. 2,20 m
Interface	USB
Power Input	max. 300 mA
Magnetic card reader Decoding	Keyboard scan codes
Magnetic card reader Standards	ISO 7811/-12, AAMVA, Gemini, JIS 1 others available on request
Magnetic head	> 1 million read cycles
Chip card reader Standards	ISO 7816, CCID, PC/SC, CT-API
Protocols	T=0, T=1; S=8 (ICC); S=9 (3-wire;SLE4418/28), S=10 (2-wire;SLE4432/42)
Mating cycles	> 200,000
Transmission rate	to the card: max. 420 Kbps
	to the system: max. 12 Mbps

PART NUMBER COMPACT	COLOR	MAGNETIC CARD READER TRACKS	CONNECTION
G81-7040LUVEU-2	Black	1+2+3	USB

PART NUMBER STANDARD	COLOR	MAGNETIC CARD READER TRACKS	CONNECTION
G81-8040LUVEU-2	Black	1+2+3	USB

MULTIBOARD
STANDARD KEYBOARD WITH TOUCHPAD

MULTIBOARD
STANDARD KEYBOARD

GENERAL FACTS & FEATURES

→ Individual keys with Gold Crosspoint contacts (MX technology)
→ Designed for continuous usage: over 50 million operations per key
→ G80-8113: touchpad
→ Programmable magnetic card reader
→ Relegendable keys
→ Extended layout (120/121 keys)
→ Integrated memory
→ OPOS and JavaPOS for Windows® and Linux
→ Supports client-server architectures

PS/2 keyboard
→ 59 programmable keys (41 inscribable)

USB keyboard
→ Fully programmable USB 2.0 keyboard

→ Statistics provided via WMI
→ Programming type can be selected – physically (memory) or via software macros with CHERRY Tools

Magnetic card reader
→ 3 track reader
→ Freely-programmable header and terminator per track
→ Filtering and replacement of magnetic card data (USB keyboard)
→ Adjustable transmission of the start and end characters (sentinels) (USB keyboard)
→ Freely selectable output sequence of the tracks (USB keyboard)
→ G80-8113: Support for Windows® system functions
→ Optional output of LRC bytes (USB keyboard)
→ ALT sequence programming (USB keyboard)
→ For Windows 7, Vista, XP, 2000 and Linux

TECHNICAL DATA

Dimensions	approx. 470 x 220 x 64 mm (keyboard)
Length of cable	PS/2: approx. 1,75 m USB: approx. 2,20 m
Interface	PS/2 or USB
Power Input	PS/2: 35 mA USB: max. 100 mA
Touchpad (G80-8113)	Resolution of 1000 dpi plus 2 mouse keys
Magnetic card reader Decoding	Keyboard scan codes
Magnetic card reader Standards	ISO 7811/-12, AAMVA, Gemini, JIS 1 others available on request
Magnetic head	up to 1 million read cycles

PART NUMBER STANDARD + TOUCHPAD	COLOR	MAGNETIC CARD READER TRACKS	CONNECTION	BARCODE SCANNER PORTS
G80-8113LRAUS-0	Light Grey	1+2+3	2 x PS/2	Yes
G80-8113LRAUS-2	Black	1+2+3	2 x PS/2	Yes
G80-8113LRDEU-0	Light Grey	1+2+3	2 x PS/2	No
G80-8113LRDEU-2	Black	1+2+3	2 x PS/2	No
G80-8113LUVEU-0	Light Grey	1+2+3	USB	No
G80-8113LUVEU-2	Black	1+2+3	USB	No

PART NUMBER STANDARD	COLOR	MAGNETIC CARD READER TRACKS	CONNECTION	BARCODE SCANNER PORTS
G80-8200LPEUS-2	Black	1+2+3	PS/2	Yes
G80-8200LRAUS-2	Black	1+2+3	PS/2	No
G80-8200LPDEU-0	Light Grey	1+2+3	PS/2	No
G80-8200LPDEU-2	Black	1+2+3	PS/2	No
G80-8200LUVEU-0	Light Grey	1+2+3	USB	No
G80-8200LUVEU-2	Black	1+2+3	USB	No

SERVICE.
ORIGINAL CHERRY.

PERFECT PROTECTION
FOR YOUR KEYBOARD.

PROTECTIVE KEYBOARD COVERS
FLEXIBLE KEYBOARD PROTECTIVE FILM

Protects the keyboard against liquids, dust and foreign bodies

TECHNICAL SPECIFICATIONS

Material	100 % polyurethane w/ UV inhibitor
Maximum Service Temperature	°F -60° to 200° °C -53° to 93°
Thickness	10.5 mil

PART NUMBER	PLASTIC KEYBOARD COVER FOR	KEYBOARD SERIES
KBCV-11900W	all US layout	G80-11900 models**
KBCV-14000W	all US layout	G83-14xxx models with smart card reader
KBCV-14100W	all US layout	G83-14xxx models without smart card reader
KBCV-1800N	all US layout	G8x-1800 models without 'Windows keys'
KBCV-1800W	all US layout	G8x-1800 models with 'Windows keys'
KBCV-4100N	all	G84-4100 models without 'Windows keys'
KBCV-4100W	all	G84-4100 models with 'Windows keys'
KBCV-4400	all US layout	G84-4400 models*
KBCV-6100W	all	G83-6104 models with 'Windows keys'

PART NUMBER	PLASTIC KEYBOARD COVER FOR	KEYBOARD SERIES
KBCV-61401W	all	G86-61401 models
KBCV-62401W	all	G86-62401 models
KBCV-6700W	all	G83-67xx models
KBCV-7000W	all	G81-7000 models with 2 & 3 track magnetic stripe reader
KBCV-8000W	all	G81-8000 models with 2 & 3 track magnetic stripe reader
KBCV-8113W	all	G80-8113 models

* Trackball lies in a hole punched in the film. Keys are under the film.
** Touchpad covered by film. This ensures the touchpad functionality.

FEEL THE KEY DIFFERENCES

KEYBOARD TECHNOLOGY

The most important properties of a computer keyboard are the actuation force and actuation path – the haptics. Due to its optimum key haptics, secure contacts and high quality of its keyboards, CHERRY has managed to become the market leader in Europe in the field of business and professional keyboards over many years.

MX technology

ML technology

FTSC technology

NTK technology

SX technology

IN PRINCIPLE, THERE ARE THREE FUNDAMENTAL TECHNOLOGIES BEHIND CHERRY KEYBOARDS

→ Keyboards with mechanical individual modules on a circuit board (MX and ML)

→ Keyboards with mechanical individual keys on contact membranes (FTSC)

→ Keyboards with an elastomer dome on a contact membrane (NTK, ATK, LPK, SX)

All of these technologies – regardless of whether mechanical or elastomer keys are in use – are characterised by long or extremely long service lives and guarantee reliable functionality, even in tough operating conditions. All of our CHERRY keyboards retain their key labelling, which is rich in contrast and non-wearing during their service lives.

1. TECHNOLOGY WITH MECHANICAL INDIVIDUAL KEYS

This category includes MX and ML.

In the MX/ML technology the key caps are mounted on individual modules that are located on a circuit board. They behave like small switches that close a contact on actuation. This contact is then processed by evaluation electronics. With both technologies, we use our special Gold Crosspoint contacts for high switching security and long service life.

The keys enable the installation of decoupling diodes which facilitate particularly quick key recognition times. The construction of these key-modules gives the user a precise feel, with MX available in three types – linear, soft or ¨click¨; with ML we offer a soft pressure point.
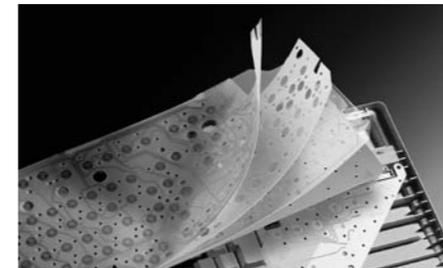
2. KEYBOARDS WITH MECHANICAL INDIVIDUAL KEYS ON CONTACT MEMBRANES

FTSC technology involves individual modules that are attached to a sturdy metal panel via a contact membrane film. The switch function is not made in the module itself, but in the membrane film. This technology ensures an extremely long service life.
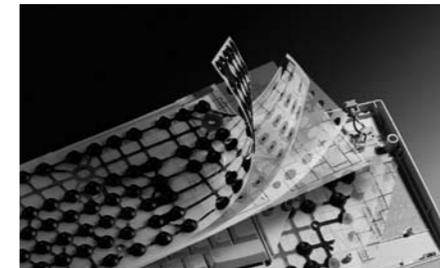
3. KEYBOARDS WITH ELASTOMER DOME ON A CONTACT MEMBRANE

The key caps are integrated directly in the upper casing part (except for SX). Every time a key is pressed, the key meets a malleable elastomer dome. This creates the feeling of actuation and switches the contact membrane located below.

The key-pressing feeling is largely influenced by the properties of the rubber mat and the length of the key guide in the housing. The various models of this technology differ in terms of the possible height of the keys.

The flattest keyboards are produced using the SX series keys, made possible with the addition of a scissor mechanism under each key. This gives the lowest possible key height and also gives soft, whisper key-strokes with its special key guides.
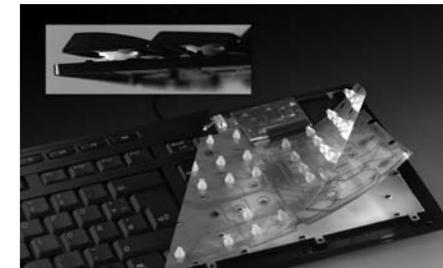
LPK technology

INGENIOUSLY SIMPLE SOLUTIONS THAT
MAKE YOUR KEYBOARD OR MOUSE EVEN MORE VERSATILE

KEYM@N

KeyM@n is a very powerful and versatile software application. It enables you to freely assign additional keys and buttons on the keyboard and mouse. You can assign links, programs, system functions and even freely definable text. This means you can call up frequently used functions at the touch of a button.

KeyM@n for Windows®

Current software version 3.5
Operating systems: Windows 2000, Windows XP, Windows Vista
Languages: English, German, French, Spanish, Italian

SOFTWARE UPDATES

The current version of our software is available as a free download under http://support.cherry.de

PROTECTOR SUITE 2009

The Protector Suite 2009 is a security software application for notebooks and desktop computers. The user can administer logging onto the operating system securely. They can also replace passwords for websites with a fingerprint and save confidential information in an encrypted form. Intuitive user guidance minimises support costs and raises user acceptance.

Windows Logon / Windows Lock: Secures Windows logon with a fingerprint

Fast User Switching: Allows every user to access his account with a fingerprint

Password Bank: ¨Learns and saves¨ passwords for single sign-ons (SSO) to websites and Windows® applications

For Windows 7, Vista and XP with Microsoft .NET 3.0 and above.

CHERRY TOOLS

Configuration software

CHERRY Tools allows you to edit the configuration of your keyboard, the keys and magnetic card and barcode readers. The configuration settings can be saved as a file. The keyboard need not necessarily be connected to the computer.

Functions:
→ Configuration of the keyboard and integrated devices (magnetic and readers, barcode readers)
→ Programming of keys and additional keys
→ Updating the keyboard firmware

Supported keyboards:
→ MultiBoard (G8x-7xxx and G8x-8xxx series)
→ XS keyboards (G84-5xxx series)
→ MPOS (G86-5x4xx series)
→ SPOS (G86-6x4xx series)
→ LPOS (G86-7x4xx series)
→ G84-4700 keypad

Can be used under MS Windows® 7, VISTA, XP, 2000, ME, 98 SE

CHERRY TOOLS RUNTIME

Configuration and driver software without user interface

CHERRY Tools Runtime ports existing configuration files onto other computers. It supports software (virtual) programming. If you switch your keyboard to a different computer, the configuration of the virtually programmable keyboard remains on the original computer. The CHERRY Tools Runtime Setup installs your configuration and all necessary drivers on the target computer. It does not install a user interface (GUI – Graphical User Interface) and cannot change configurations.

Functions:
→ Installs configuration files when switching to other computers (virtual programming only)

Can be used under MS Windows® VISTA, XP, 2000, ME, 98 SE.

CHERRY OPOS SUPPORT

OPOS (OLE for POS) enables simple integration of different Point of Sale (POS) hardware in the relevant applications. Win32 components in accordance with UnifiedPOS specification.

Content: Service Objects and Demo applications

Device classes:
→ Magnetic stripe readers
→ Keyboards
→ Barcode scanners

Setup variants:

Local edition: For installing on standalone systems under the following MS Windows® operating systems 98, ME, NT4 SP6, 2000, XP, XP embedded (no client/server support), VISTA

Client edition: For installation on clients under the following operating systems: Windows 2000, XP, XPembedded, VISTA, (supports Citrix Metaframe and MS Windows Terminal Server)

Server edition: For installation on servers under the following operating systems: Windows 2000 Server, 2003 Server, VISTA, (supports Citrix Metaframe and MS Windows Terminal Server)

OPOS-capable CHERRY keyboards:
→ MultiBoard (G8x-7xxx and G8x-8xxx series)
→ XS keyboards (G84-5xxx series)
→ MPOS (G86-5x4xx series)
→ SPOS (G86-6x4xx series)
→ LPOS (G86-7x4xx series)

JAVA POS SUPPORT
FOR WINDOWS®

JavaPOS (Java for POS) enables simple integration of different Point of Sale (POS) hardware in relevant applications. Components in accordance with UnifiedPOS specification.

Content: Service Objects and Demo applications

Device classes:
→ Magnetic stripe readers
→ Keyboards

Setup variants:

Local edition: For installation on standalone systems under the following operating systems: Windows 98 ME, NT4 (SP6), 2000, XP, XPembedded (No client / server support), VISTA

Client edition: For installation on clients under the following operating systems: Windows 2000, XP, XPembedded, VISTA, (supports Citrix Metaframe and MS Windows Terminal Server)

Server edition: For installation on servers under the following operating systems: Windows 2000 Server, 2003 Server, (supports Citrix Metaframe and MS Windows Terminal Server)

JavaPOS-capable CHERRY keyboards:
→ MultiBoard (G8x-7xxx and G8x-8xxx series)
→ XS keyboards (G84-5xxx series)
→ MPOS (G86-5x4xx series)
→ SPOS (G86-6x4xx series)
→ LPOS (G86-7x4xx series)

JAVA POS SUPPORT FOR LINUX

JavaPOS (Java for POS) enables simple integration of different Point of Sale (POS) hardware in relevant applications. Components in accordance with UnifiedPOS specification.

Content: Service objects and the corresponding kernel modules

Device classes:
→ Magnetic stripe readers
→ Keyboards

JavaPOS-capable CHERRY keyboards:
→ MultiBoard (G8x-7xxx and G8x-8xxx series)
→ XS keyboards (G84-5xxx series)
→ MPOS (G86-5x4xx series)
→ SPOS (G86-6x4xx series)
→ LPOS (G86-7x4xx series)

Fig. European keyboard
with Windows® keys (105 keys)

EUROPEAN KEYBOARD LAYOUT

COUNTRY CODE	COUNTRY	COUNTRY CODE	COUNTRY
BE	Belgium	NL	Netherlands
CH	Switzerland	NO	Norway
DE	Germany	PL	Poland
DK	Denmark	PO	Portugal
ES	Spain	RD	German / Cyrillic
FR	France	SF	Sweden / Finland
GB	UK English	SL	Slovenia
GR	Greece	TS	Czech Republic
IT	Italy		

Possible country variants, others available on request.

EXAMPLE

G80-3000LPM**DE**-0 = German layout
G81-3000LRN**IT**-0 = Italian layout
G83-6105LUN**GB**-0 = UK English layout
M85-25835**FR** = French layout

xx in the number code of the keyboard

Fig. International keyboard
with Windows® keys (104 keys)

INTERNATIONAL KEYBOARD LAYOUT

COUNTRY CODE	COUNTRY
BB	Bulgaria
EU	US English / international with E
IL	US English / Hebrew
RB	US English / Cyrillic
RL	US English / Cyrillic / Lithuanian
US	US English

Possible country variants, others available on request.

EXAMPLE

G81-3000LRN**US**-0 = US English layout
G83-6104LUN**EU**-0 = US English / international

xx in the number code of the keyboard

CONTACT

PHONE

Sales hotline: (262) 942-6500
Technical support: (800) 510-1689

E-mail: keyboardsupport@zf.com

Our Service hours:
Monday - Friday: 8 AM - 4:45 PM Central time

WEB

For more products and information,
take a look at www.cherrycorp.com

→ All products with technical data,
highlights and features
→ Equipment variants
and other information
→ Service and Download Centre
and much more

CHERRY means versatility –
discover our complete product range.

Whether B2B or B2C – we have a huge range
of products and services. This is the result
of many years of development and production
of computer input devices.

More on www.cherrycorp.com

PRODUCT OVERVIEW B2C

KEYBOARDS

PRODUCT	CHERRY KW 6000	CHERRY KW 3000	STRAIT	STRAIT BLACK	STREAM XT T2	STREAM XT T2	STREAM XT	STREAM XT	STREAM XT	INITIAL	EASYHUB
PART NUMBER	JK-0600	JK-0400	JK-0300	JK-0340	G85-23100xxADSP-	G85-23100xxAESP-	G85-23110	G85-23100-0	G85-23100-2	G82-27000	JK-0100
CONNECTION	Bluetooth	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB
WIRELESS / CORDED	Wireless	Wireless	Corded	Corded	Corded	Corded	Corded	Corded	Corded	Corded	Corded
RANGE / LENGTH	approx. 10 m	approx. 8 m	approx. 1,80 m	approx. 1,80 m	approx. 1,80 m	approx. 1,80 m	approx. 1,80 m	approx. 1,80 m	approx. 1,80 m	approx. 1,80 m	approx. 1,80 m
DIMENSIONS	261 x 128 x 9	468 x 172 x 22	441 x 161 x 15	441 x 161 x 15	472 x 176 x 18	472 x 176 x 18	472 x 176 x 18	472 x 176 x 18	472 x 176 x 18	472 x 176 x 18	475 x 179 x 16
PAGE	06	08	10	10	12	12	13	13	13	14	14

KEYBOARDS

PRODUCT	CHERRY KC 5000	STANDARD	STANDARD
PART NUMBER	JK-0211	G83-6000	G83-6000
CONNECTION	USB	USB	USB
WIRELESS / CORDED	Corded	Corded	Corded
RANGE / LENGTH	approx. 1,80 m	approx. 1,75 m	approx. 1,75 m
DIMENSIONS	457 x 170 x 16	458 x 170 x 42	458 x 170 x 42
PAGE	15	15	15

DESKTOP-SETS

PRODUKT	CHERRY DW 8000	CHERRY DW 5000	B.UNLIMITED AES	ZF 5000
PART NUMBER	JD-0300	JD-0500	JD-0400	JD-0200
CONNECTION	USB	USB	USB	USB
WIRELESS / CORDED	Wireless	Wireless	Wireless	Wireless
RANGE / LENGTH	approx. 10 m	approx. 8 m	approx. 10 m	approx. 10 m
DIMENSIONS KEYBOARD	441 x 165 x 18	468 x 172 x 22	460 x 165 x 15	447 x 198 x 12
DIMENSIONS MOUSE	107 x 60 x 27	113 x 65 x 34	115 x 60 x 35	110 x 64 x 33
PAGE	18	20	21	23

CARD READERS

PRODUCT	SMARTBOARD	SMARTTERMINAL	SMARTTERMINAL
PART NUMBER	G83-6744	ST-1044UB-R	ST-2000
CONNECTION	USB	USB	USB
WIRELESS / CORDED	Corded	Corded	Corded
RANGE / LENGTH	approx. 1,75 m	approx. 1,75 m	approx. 1,75 m
DIMENSIONS	458 x 195 x 54	75 x 51 x 55	150 x 92 x 55
PAGE	36	38	39

MICE

PRODUCT	CHERRY MW 3000	CHERRY MW 2100	CHERRY MW 2300	AZURO	NOVEX	ZF 5000	GENTIX	XERO
PART NUMBER	JW-T0100	JW-T0200	JW-T0300	M-305	JW-0100	JW-0200	JM-0300	JM-0100
CONNECTION	USB	USB	USB	USB	USB	USB	USB	USB
WIRELESS / CORDED	Wireless	Wireless	Wireless	Wireless	Wireless	Wireless	Corded	Corded
RANGE / LENGTH	approx. 5 m	approx. 10 m	approx. 10 m	approx. 10 m	approx. 10 m	approx. 10 m	approx. 1,80 m	approx. 1,80 m
DIMENSIONS	106 x 68 x 39	100 x 59 x 38	120 x 76 x 39	105 x 65 x 40	123 x 64 x 33	109 x 64 x 33	112 x 69 x 35	107 x 66 x 41
PAGE	26	28	29	30	30	31	32	33

CHERRY

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