CTI ELECTRONICS
An Affiliate of ELECTRO SWITCH

KIF66U6-N2W Medical Keyboard

NEMA 4 (IP66) MEDICAL / CLEANROOM KEYBOARD WITH MEDICAL MOUSE

performance

durability

reliability

• Shown above KIF66U6-N2W Medical Keyboard with Medical Mouse

KIF66U6-N2W STANDARD

- NEMA 4X (IP66) sealed
- Standard Operating Temperature -40°C to 80°C (-40°F to 176°F)
- High reliability and durability (MTBF 100,000+ hours, 10,000,000+ deflections)
- Key contacts are comprised of a thick layer of hard gold on PCB and hard carbon pills molded into the Silcone Rubber Elastomer
- 2mm Key travel with excellent tactile feedback to operator
- Thermally infused silicone ink into the Elastomer ensures long term readability
- Parylene "C" coated Elastomer and strain relief protects from penetration of bio-hazardous materials at the molecular level.
- A thick 0.06" PCB ensures rigidity under pressure and protection of electronic components
- PCB layout offers EMI/RFI shielding and Ground Connection (ESD)
- Finest grade stainless steel is passivated
- Stainless Steel Threaded Inserts on bottom plate for surface mounting

KIF66U6-N2W USB MEDICAL KEYBOARD

CTI's KIF66U6-N2W Plug-n-Play Medical / Cleanroom Keyboard is comprised of a durable Printed Circuit Board (PCB), a rubber silicone Elastomer, a Medical Mouse (Joystick), a stainless steel enclosure, and a USB cable. The PCB is designed for protection against electromagnetic and radio frequency interference as well as electro static discharges. Upon the PCB is a layer of hard plated gold used for the switching contacts of the Keys. Molded under the Key of the Elastomer are four hard carbon pill contacts which provide reliability and durability. This Elastomer features a time tested durometer that provides an ergonomic key stroke with excellent tactile feedback. It also includes a molded special O-Ring which compresses to ensure a watertight seal. In addition, the Elastomer has been treated with a thermally infused silicone ink to create the QWERTY legend and then molecularly sealed through a Parylene "C" coating process in a gas chamber. Ensuring a watertight seal, this keyboards is encased in the finest grade stainless steel enclosure.

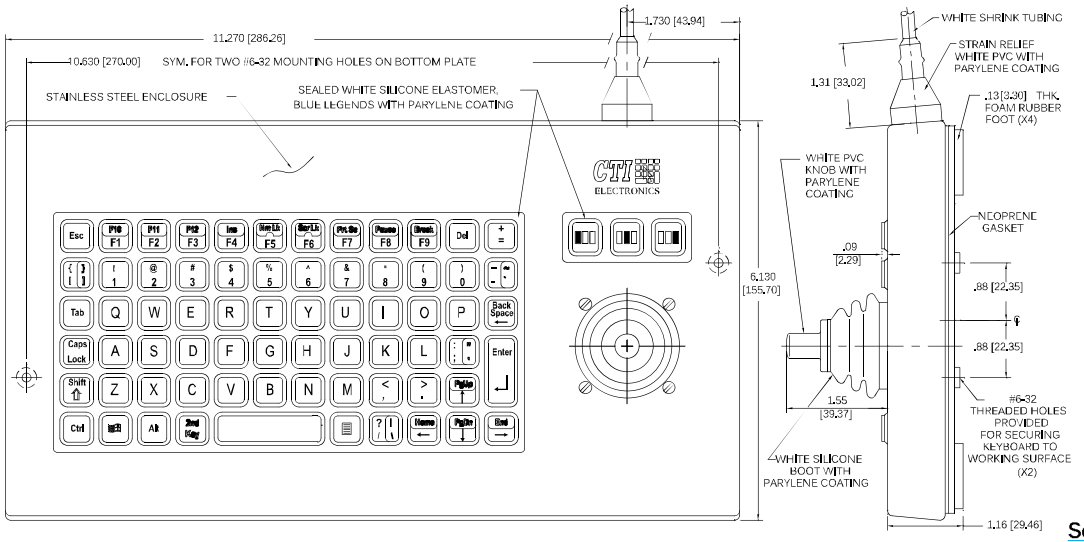
The NEMA 4X (IP66) sealed Medical / Cleanroom Keyboard is most suitable for critical applications requiring high durability (10M+ cycles), high reliability (99.999% availability), and/or ensured performance under extreme operating temperatures, exposure to harsh climate conditions, and/or solid and liquid contaminants. It's well protected against high vibration, EMI/RFI signals, bio-hazardous agents, and cleaning solvents. The stainless steel threaded inserts on the bottom plate allows for affixing to a panel or desktop.

This Plug-n-Play Medical / Cleanroom Keyboard offers the Commercial End User a hygienic keyboard that can be confidently installed with an assurance of high reliability, long term durability, and performance under harsh conditions. Applications include mitigating infection control in healthcare facilities or managing exposure and/or contamination control in chemical, biological, pharmaceutical, science research laboratories, semiconductor, lithography, and manufacturing facilities. The combined features of the Plug-n-Play Medical / Cleanroom Keyboard meet and/or exceed industry standards specifications.

KIF66U6-N2W TECHNICAL DRAWINGS

761828	KIF66U6-N2W OEM Medical Keyboard with Medical Mouse

KIF66U6-N2W MEDICAL KEYBOARD TECHNICAL DRAWING



See CTI Technical Drawing 761828

F-SERIES JOYSTICK PATENTS

U.S.A. PATENTS 4,825,157 | 5,376,946 | 5,532,476

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One Year Warranty www.ctielectronics.com Five Year Repair Policy

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performance

MEDICAL KEYBOARD COMPARISON CHART

	KI6000	KIF6000	KIT6000	KIO7000
Dimensions (Inches)	8.70" x 6.13" x 1.33"	11.27" x 6.13" x 1.13"	11.27" x 6.13" x 1.57"	12.33" x 6.13" x 1.33"
Dimensions (mm)	221mm x 155.7mm x 33.8mm	286.3mm x 155.7mm x 29.5mm	286.3mm x 155.7mm x 39.9mm	313.2mm x 155.7mm x 33.8mm
Weight (Stainless Steel)	40 Oz (1.13 kilograms)	54 Oz (1.53 kilograms)	55 Oz (1.60 kilograms)	59 Oz (1.70 kilograms)
Mouse Pointer		Medical Mouse (Joystick)	Medical Mouse (Trackball)	Medical Mouse (Button Style)
Numeric Keypad				Yes
Key Funtionality	101/104	101/104	101/104	101/104
Funtion Keys	12	12	12	12
Language Options	US QWERTY	US QWERTY	US QWERTY	US QWERTY
Total Keys	69 Keys	69 Keys	69 Keys	90 Keys
Key Travel	2mm travel with excellent tactile feedback			
Sealing	NEMA 4X (IP66)	NEMA 4X (IP66)	NEMA 12 (IP54)	NEMA 4X (IP66)

KIF66U6-N2W SPECIFICATION

KIF66U6-N2W Measurements	**Width:** 11.27" (286.3mm)	**Height:** 6.13" (155.7mm)	**Depth:** 1.13" (29.5mm)	**Weight:** 54 Oz (1.53 kg)
Operating Systems	**Microsoft Windows® Operating System** (Windows XP, Windows 7, Windows 8, Windows 10)			
	Mac OS X® or **Linux OS** requires compliant USB Device Class Definition for Human Interface Devices 1.11			
Standard Driver	**Windows OS USB Composite Driver** (does not allow interrupt of OS boot process for BIOS)			

KIF66U6-N2W ELECTRICAL SPECIFICATION

MTBF	Greater than 100,000 hours
Cabling	Shielded USB Cable (9.5 feet)
Ground Connection	Yes
EMI/RFI Shielding	Designed into PCB Layout
ESD Protection	8Kv (Contact), 15Kv (Air)

durability

KIF66U6-N2W MECHANICAL SPECIFICATION

Life Expectancy	**Elastomer Keys** 10,000,000+ activations/cycles (hard carbon pills, hard gold plated PCB)					
Shock	**Peak Value** 40g (typical)		**Peak Duration** 11ms		**Waveform** Half Sine	
Vibration	Frequency / Displacement		10-55 Hz @ 0.013 DA			
Joystick Life Expectancy	X & Y Axes		10,000,000 random deflections			
Joystick MTBF	Greater than 100,000 hours					
Joystick Movement	X & Y Axes (Simultaneous or Non-Simultaneous Movement)		Max +/- 20° travel			
Joystick Operational Force	X & Y Breakout Force	140g (Standard)	X & Y Full Scale Force	235g (Standard)		
Joystick Shock	Peak Value	30-50g	Peak Duration	11ms	Waveform	Half Sine
Joystick Vibration	Frequency / Displacement	5-25 Hz / 0.1"	25-55 Hz / 0.03"			

KIF66U6-N2W ENVIRONMENTAL SPECIFICATION

Operating Temperature	-40° to 80° C / -40° to 176° F
Storage Temperature	-40° to 80° C / -40° to 176° F
Relative Humidity	100% condensing
Sealing Rating	NEMA 4X (IP66)
Protection	Parylene Coated Elastomers, Strain Relief, Joystick, and Boot- toughest molecular barrier protection

reliability

CONFORMANCE / CERTIFICATIONS / COMPLIANCE

subject to manufacturing options applied

U.S.A. Standards	U.S. FCC 47 CFR 15 Class A & B	RF Emissions Compliant 8Kv (Contact), 15Kv (Air)
	MIL-STD-461F	Radiated Emissions and Susceptibility Conformance
	MIL-STD-810G	Protection against humidity, fungus, and salt spray Conformance
	MIL-STD-901D	Protection against shock Conformance
	MIL-STD-167-1	Protection against vibration Conformance
	MIL-STD-1472G	Human Factors Conformance
	MIL-I-45208	Quality System Conformance
	IPC-A-610 II	Acceptability of Electronics Assemblies Certification
European Standards	ISO 9001:2008 (Registration No. 74 300 3983)	
	"CE" Compliant	
	Restriction of Hazardous Substance (RoHS) Directive Compliant	
	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Directive Compliant	
International Standards	IEC 61000-4-2 and EN61000-4-2	ESD 8Kv contact and 15Kv air Conformance
	IEC 61000-4-3 and EN61000-4-3	Radiated Emissions and Susceptibility Conformance
	IEC 61000-6-3 and EN61000-6-3	Electromagnetic Compatibility Conformance

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