

EUT : PS/2 Keyboard

FCC ID : GYUR79SK

SILITEK CORPORATION

USER'S MANUAL

F.C.C. GUIDELINES

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WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, Uses and can radiated radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- Shielded interface cables must be used in order to comply with emission limits.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Bescheinigung des Herstellers/Importers

in Ubereinstimmung mit den Bestimmungen der BMPT-AmtsblVfg 243/1991 funk-entstort ist. Der vorschriftsmaBige Betrieb mancher Gerate (z.B. MeBsender) kann allerdings gewissen Einschränkungen unterliegen. Beachten Sie deshalb die Hinweise in der Bedienungsanleitung. Dem Bundesamt für Zulassungen in der Telekommunikation wurde das Inverkehrbringen dieses Gerates angezeigt und die Berechtigung Zur Überprüfung der Serie auf die Einhaltung der Bestimmungen eingeräumt.

Silitek Corporation

SK-2800C

- (1) Silitek Corp. reserves the right to make changes or improvements in the products described in this manual without notice at any time.
- (2) Silitek is a registered trademark of Silitek Corporation.
- (3) IBM PC/AT, PS/2 is a registered trademark of International Business Machine Corporation.

INTRODUCTION

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Thank you for choosing this innovative product.

This keyboard is one of the SK-2800C series products, which are 104/105/106/107/109 keys enhanced keyboards for IBM PC/AT, PS/2 and its compatibles.

OPERATION

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3.1 PC/AT, PS/2 Mode Selection This keyboard is designed to be AT,PS/2 mode Selection is done by auto-switchable.

3.2 Mode Indicators

There are three LEDs on the keyboard to indicate Caps Lock, Num Lock and Scroll Lock.

The LEDs are 'toggled'. The first depression of the key turns on the LED. The second depression turns the LED off and so on. LEDs are off on power-up or software reset, but will flash during power-on initialization.

3.3 Type Ahead Capability

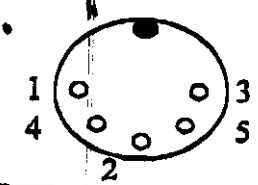
The keyboard has 16 keys type ahead capability. This means that you can depress 16 keys before host can receive. If more keys are pressed before the host allows keyboard output, the additional data is lost.

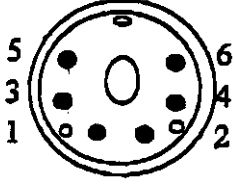
CABLE AND CONNECTOR

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The keyboard shielding cable is a 4.5 ft long cable. The keyboard cable is connected to the host unit through a 5/6-pin Din connector.

The following figure lists the connector pins and their signals.

Description	Signal	Pins	Connector
keyboard clock	5 Vdc signal	1	
keyboard data	5 Vdc signal	2	
		3	
ground	0	4	
power supply	5 Vdc	5	

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keyboard data	5 Vdc signal	1	
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		6	

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5.1 Electrical Characteristics

Keyboard :

Input Power: +5 VDC, 80 mA max.
Power Consumption: 0.4 watts max.

5.2 Mechanical Characteristics

Total Travel: 3.6 +/- 0.2 mm
Pretravel: 2.5 +/- 0.25 mm
Operating Life: 20 million cycles
Dimension: 450 * 161 * 36 mm (W * D * H)

5.3 Environmental Specifications

Operating Temperature: 5 °C to 40 °C
Storage Temperature: -20 °C to 55 °C
Relative Humidity: under 95% non-condensing

3.4 Typematic Delay and Repeat Rate

With the exception of the Pause key, all keys are typematic. When a key is pressed and held down, the keyboard delays 0.5 sec. and begins sending a make code for that key at a rate of 10.9 characters per second. (The delay is called typematic Delay and the rate is called Repeat Rate.)

If two or more keys are pressed, only the last key pressed is repeated at the repeat rate. Typematic operation stops only when the last key pressed is released, even if other keys are still held down.

If a key is pressed and held down while keyboard transmission is disable, only the first make code is stored in the type ahead buffer. This prevents the type ahead buffer overflow as result of typematic action. In AT mode, the typematic delay and repeat rate are programmable, this is done by command from host.

The default data:

Typematic Delay = 0.5 sec.

Repeat Rate = 10.9 characters per sec.

3.5 Pseudo N-Key Roll-over Capability

The 'N' key roll-over capability where 'N' is the total number of keys on the keyboard 'N' key roll is the number of keys that may be held depressed simultaneously and have the keyboard generate the appropriate code for

3.6 Diagnostic Test

The keyboard microprocessor will perform a diagnostic self-test after Power-up or after the host system signals the keyboard to perform a software Reset. The microprocessor will check its data memory locations, do a sum-check internal RAM check and check for any depressed keys. If the diagnostic test is correct, the keyboard will transmit an 'AA HEX' code. This will be the first transmission following a Power-Up condition. If the diagnostic test was unsuccessful, then the keyboard will transmit an 'FD/FC HEX' code. In either case, after the diagnostic check the keyboard will begin normal operation.

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