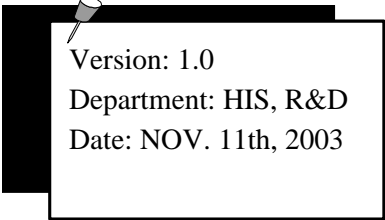# User's Manual

For Model : SK-7265
RF Wireless Keyboard

Version: 1.0
Department: HIS, R&D
Date: NOV. 11th, 2003

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Table of Contents

1. General

SK-7265 is a set of 27 MHZ RF keyboard product, the product is composed of a set of wireless desk top keyboard and USB receiver. The keyboard includes standard function keys and several easy access keys.

General the receiver supports both keyboard and mouse function. Hereunder are only described keyboard functionality in the product specification ,not excluded mouse portion.The mouse is a optional device and the functionality will be described in the specification of mouse.

Product package includes wireless keyboard and receiver, mouse device is optional according to customer's demend.

1.1 Main feature

The product provides 4 channels /256 ID operation to prevent frequency interference.there are two channel for keyboard and another two channel for mouse.

The receiver interface of supporting both keyboard and mouse to the system through USB ports.

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- High performance ,have a reliable and stable function in RF link.
- Phantom key detection.
- Low power consumption .
- 4k bps baud rate in air.
- Provides 2 +2 RF channels .
- 256 ID codes randomly generated to resist interference.
- EEPROM interface for ID keeping
- Low battery detector function for transmitter.

1.2 Software requirement

The keyboard, receiver and drivers are compatible with operating systems that are WIN98, Windows Millennium and Windows 2000. The driver-application also must meet all current and future Microsoft WHQL requirements.

2. Mechanical ID

Keyboard:
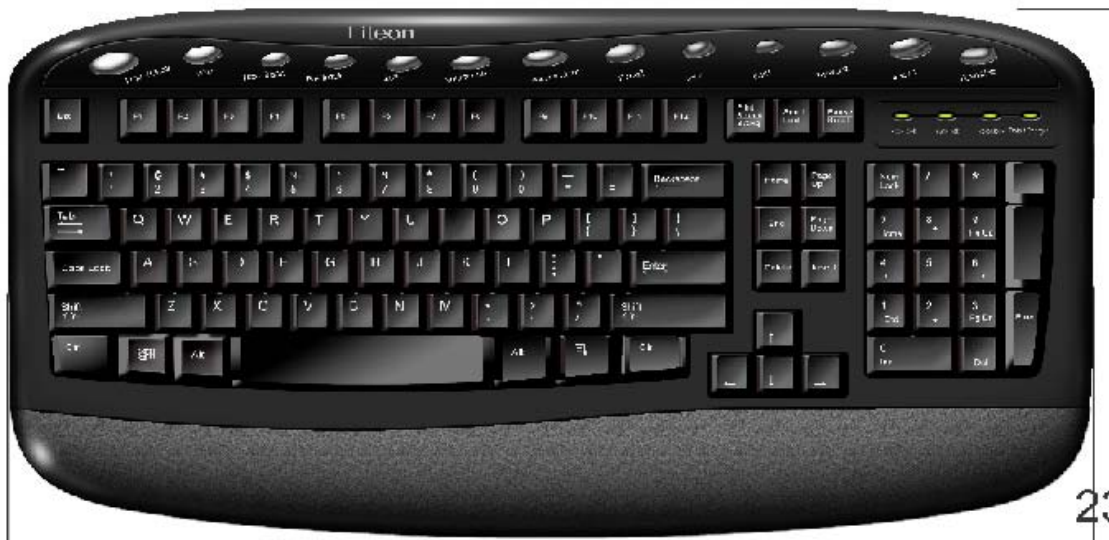
3. Electrical Specification

Functional Block diagram:

Low power indicator

Keyboard
(Base-Band)
CPU
Crystal : 4.9152MH

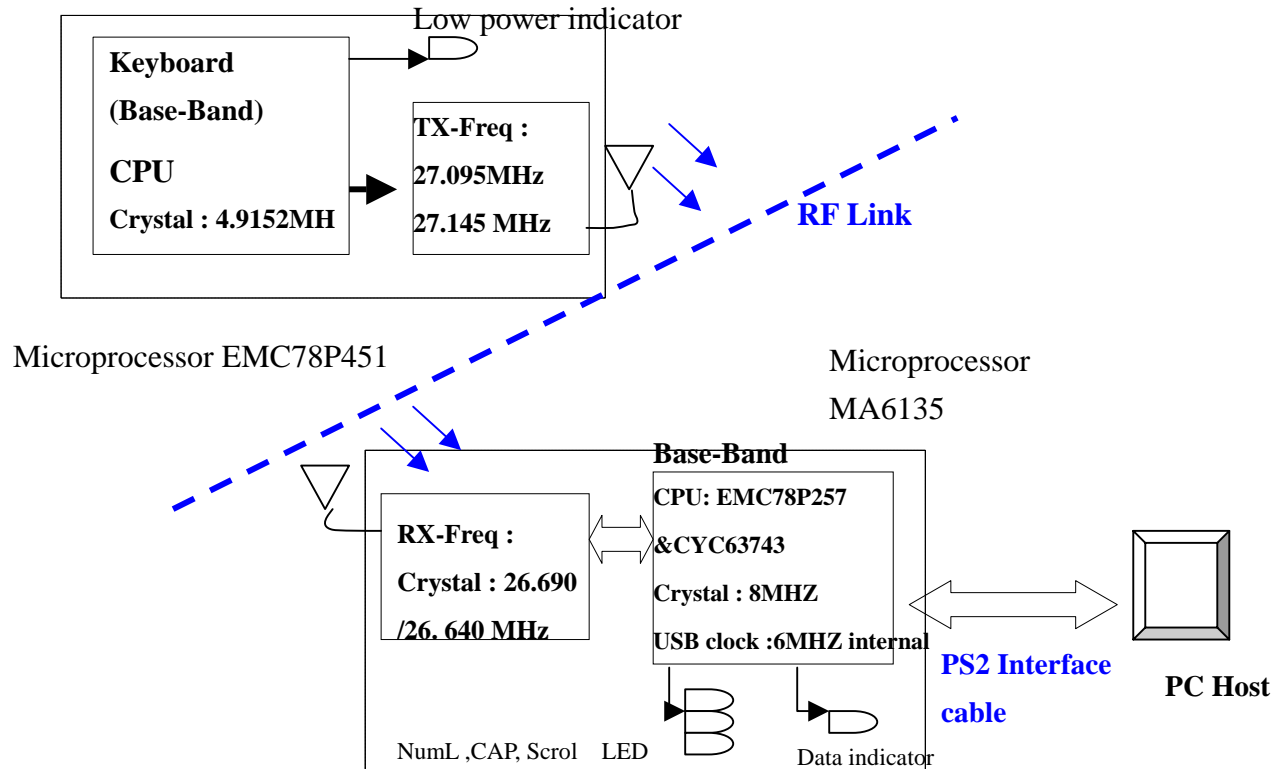TX-Freq :
27.095MHz
27.145 MHz

RF Link

Microprocessor EMC78P451

Microprocessor
MA6135

Base-Band
CPU: EMC78P257
&CYC63743
Crystal : 8MHZ
USB clock :6MHZ internal

RX-Freq :
Crystal : 26.690
/26. 640 MHz

PS2 Interface
cable

PC Host

NumL ,CAP, Scrol   LED   Data indicator

3.1 Keyboard Transmitter

Operating voltage

The operating voltage range for keyboard is 2.2 ~ 3.3 Vdc.

There are 2 AA batteries providing 3.0V for operation

Current consumption

Typical current consumption is 8 mA, .Maximum at 10 mA
Suspend current is under 50 uA.

Power consumption

The power consumption is less than 0.024 W at operation mode and 150 uW
at sleep mode.

Low Power Indicator

Low power indicator on the keyboard will be lit during hitting key when the

battery voltage applying to keyboard is less than about 2.5V.

Effective Transmission Distance

Effective transmission distance is 2 meters.

3.1.4　Features of keyboard

◆ This model contains easy access keys, including web. and multimedia keys .

◆ There is one LED on the keyboard for battery low power indication.

◆ .It has a standard keyboard function with the language layout of US English version.

◆ Two AA batteries are to be installed at the bottom of the keyboard for operation.

◆ There is a channel selection button at the bottom side of keyboard .

◆ Low battery power consumption and high RF performance design.

Easy Acess Key Code Table

Win2000 compatible, they are include,refer to table below: USB Hot key

No.	Usage Name / Key Name
1	Scan Next Track
2	Scan Previous Track
3	Stop
4	Play / Pause
5	Mute
6	Volume Increment
7	Volume Decrement
8	EMail Reader
9	WWW Home
10	WWW Back
11	WWW Forward
12	WWW Favorites
13	WWW Search
14	WWW Refresh

*These controls are currently supported in Windows Me *only*.

3.2 Receiver

3.2.1 Operating voltage

Voltage supplied to keyboard receiver : 5+/-0.25 VDC

With ripple lower than 150mv, and capable of supply load current up to 100 mA with voltage drop less than 0.25 VDC

Current consumption

Under nominal 5 VDC power supplied, typical current

operating is 40 mA and 45 mA at maximum.

Cable connector :
4 pin USB connector compatible with USB V1.1 spec..

LED indicators

There are four indicators on the receiver included

NumLock ,CapLock,ScroLock and Receiving Data LEDs. The data indicator

will be ON only when data is receiving from the transmitter.

3.3 Function description

3.3.1 Interface specification with host PC

The keyboard Receiver uses USB interface to PC host in data

communication between them.

3.3.2 Operation

Battery Installation

Installs two AA batteries to transmitter and connected the receiver with PC

system, it's ready for connection procedure.

Connection (ID & channel Pairing) procedure

Procedure by steps

Step-1: Pressing the channel button one time of receiver first ,the DATA LED will

be lit up.

Step-2: Within 10 seconds after RX button pressed , press the channel button of

TX. The DATA LED will turn OFF when it completed connection between TX and RX.

Step-3: Go to the normal operate.

Note: Preset default channel setting in the production line before packing

for delivery

Channel and ID numbers

Channel: two channels including CH1,27.095 and CH2 ,27.145 for

keyboard .

ID: There has a randomly 256 ID from for selection.

Note: The ID indication is to prevent from interfering each other.

End of SK-7265 User's Manual

FEDERAL COMMUNICATIONS COMMISSION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

NOTE

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.

Note:

This device and its antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.