KU-007 SMART KEYBOARD

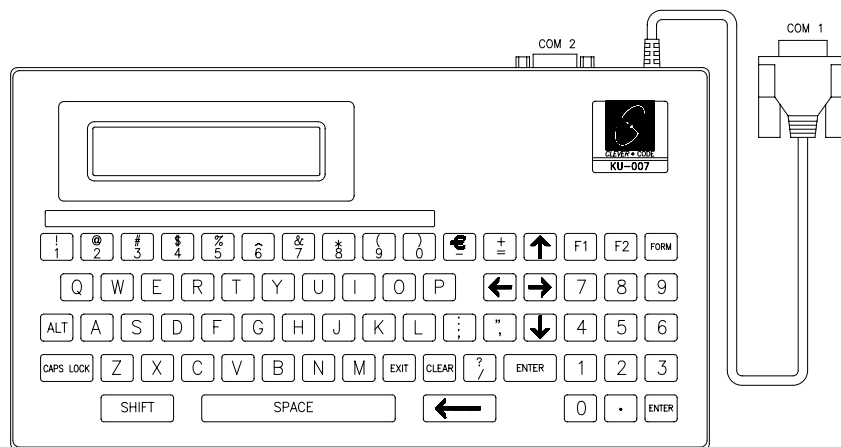## PROGRAMMABLE PRINTER CONTROLLER

USER'S MANUAL

Outline of KU-007

Thank you for purchasing the KU-007 smart keyboard. The KU-007 is a versatile, portable controller unit that is used to print labels on your bar code printer. The controller eliminates the need to connect your bar code printer to a computer, facilitating true stand-a-lone operation. The feature rich KU-007 has built in on-line editing, file management, real time clock (Y2K compliant), Euro logo, and the BASIC like language interpreter. With its BASIC like language, it is easy to process data received from the input port to produce labels on your bar code printer. The KU-007 is equipped with two (2) RS-232 interfaces. The serial interfaces offer two way communication to easily send data to and from the KU-007.

With the large keypad design, it is easy to type in data for your labels or perform standard operations on the KU-007. There is ample 128Kb memory available to download programs and data. No mater where you go, just connect KU-007 to the printer. You will accomplish your jobs conveniently and easily.

Key Features of the KU-007

68 keys, large keypad layout

Big LCD screen (20 characters × 2 lines)

Additional RS-232 port for second input device

Maximum 50 files can be stored in memory

Upload or download files through both serial port

Real Time Clock (Y2K compliant)

Built-in Euro logo (ASCII 176, 177)

Floating point calculation capable

Password locking security

Auto execution function

Specifications

Keyboard Unit

Size	261mm(L)×142.2mm(W)×31mm(H)
Weight	440g
LCD	20 characters × 2 lines
Max Current	5V, 250mA
External Power	5V, 150mA
Operating Temperature	40°F~104°F (5°C~40°C)
Storage Temperature	-4°F~140°F (-20°C~60°C)

Memory

FLASH	512 KB for system, 1 MB for application
SRAM	128 KB for system, 128 KB for application

Communication Interface

The available communication parameters for both 2 serial ports are listed below:

Baud rate: 2400, 4800, 9600, 19200 bps

Parity check: none, even or odd

Data bits: 7 or 8

Stop bit(s): 1 or 2

The serial interface COM1 is a 9-pin male, D-style, subminiature connector with integrated cable. The pin assignments are shown as below:

KU-007 COM1		KU-007 COM2	
Pin	Configuration	Pin	Configuration
1	Power input 5 volts, 250mA	1	Power input 5 volts, 250mA
2	RxD	2	TxD
3	TxD	3	RxD
4	DTR	4	DSR
5	Ground	5	Ground
6	DSR	6	DTR
7	RTS	7	CTS
8	CTS	8	RTS
9	Connect with Pin1 internally	9	Connect with Pin1 internally

Safety Regulations

FCC Class A
CE EMC

Check-List

Verify the contents of the packaging according to the list below. If any parts are missing, please contact your local representative.

One KU-007 keyboard unit

KU-007 User's Manual

Three pages of special character table

One 25 pin to 9 pin RS-232 converter

Two screws for SI thread

Options

External power set:
   AC adapter
    Input: 110V AC or 220V AC
    Output: 5V DC

   RS-232 cable with power adapter jack

Keyboard Setup

The integrated cable/connector on the KU-007 is defined as COM1. COM1 generally will be plugged into your printer's serial port. Use the 25 to 9 pin converter if the printers serial port is a 25 pin connector. To avoid any possible damage to the KU-007, please turn off the printers power prior connecting the keyboard to the COM1 port on the printer. The KU-007 gets its power from the printer through this cable from the printer port. If the KU-007 does not turn on when the printer is powered up, then the optional AC adapter may be required.

The open COM2 port on the KU-007 is used for downloading programs (or data files) from your computer. Connect the serial cable to COM2 on the KU-007. Then connect the other end to an open serial port on your computer. Programs and data files can now be downloaded to the KU-007 for label generation. After COM2 has been used to download your programs from the computer, it can now be connected to an input device such as a bar code scanner. To use COM2 as an input port, your loaded program must be written to properly read data in from the COM2 port.

For more information, please visit our web site. http://www.ts.com.tw

TAIWAN SEMICONDUCTOR CO.,

2F, No.8, Alley 16, Lane 235, Pao, Chiao Rd., Hsin Tein, Taipei Hsien, Taiwan, R. O. C.

TEL: +886-2-29174145   FAX: +886-2-29159741