

Software Programmable PC/XT/AT/PS2 Compatible Keyboard Encoder KeyCoder™ K25C8-POS

Addendum to the K25C81 Data Specification

Description

The USAR K25C81-POS KeyCoder™ is a special version of the K25C81 keyboard encoder that allows the creation of software-programmable keyboards. The K25C81-POS offers the same functionality as the K25C81, as well as providing the following feature: Make and Break Scan Codes corresponding to the key matrix scanned by the K25C81-POS are preceded with a special reserved code (E2 Hex). A TSR or an application program can use standard BIOS and DOS services to intercept these codes and substitute them with alternate scan code(s) or a key macro. Scan codes transmitted from an external keyboard connected to the auxiliary port of the K25C81-POS are not altered. The special code prefix can thus be used to uniquely identify key locations on the scanned key matrix. Software examples are available to demonstrate the functionality of this software-programmable keyboard encoder.

Using the K25C81-POS, System Integrators can implement dual keyboard systems, where one keyboard acts as a standard desktop keyboard, while the other can be reprogrammed for a specialized application.

Package options include DIP, PLCC, or Quad Flat. Custom versions of K25C81-POS are available in small or large quantities. Boards and evaluation kits are available and come ready-to-connect.

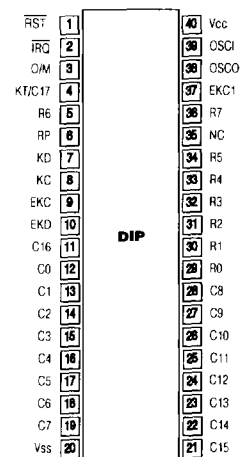
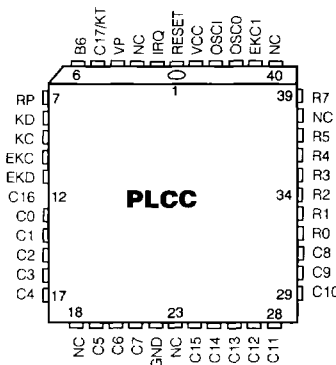
Features

- Software-programmable keys on the scanned switch matrix
- Encodes up to 144 custom keys on an 8 X 18 matrix
- Offers Two-Key Inhibit scanning mode
- Directly interfaces the PC keyboard port
- Enables custom keypad scan codes to remain unaffected by the Shift States of an external keyboard
- Includes jumper selectable auto-repeat for designated keys
- Interfaces an 83 /101/102 standard keyboard or other 8042-compatible device

Applications

- Programmable keyboards
- Control panels
- Automatic teller machines
- Instrumentation
- Industrial panels
- Point of sales terminals
- Embedded control systems
- Public information kiosks
- Industrial controllers
- Industrial controllers

Pin Configurations



Packaging

DIP Dual-in-Line Plastic
 PLCC Plastic Quad
 QFP Quad Flat Pack
 Wide temperature range

Ordering Code

Packages	TA = 0°C to +70°C	TA = -40°C to +85°C
40 pin, Plastic DIP	K25C81-POS-P	K25C81-POS-CP
44 pin, Plastic PLCC	K25C81-POS-FN	K25C81-POS-CFN
44 pin, Plastic QFP	K25C81-POS-FB	K25C81-POS-CFB

Functional Diagram

