

## CarySECURE Series Keyboards

The **CarySECURE** keyboard is designed to replace the standard PC keyboard with one more suited to point-of-sale applications. It includes the membrane expansion module to provide users with up to 113 programmable keys. A new long life, dual-track magnetic stripe card reader and PS/2 connection to a PC are also provided.

### Overview

The **CarySECURE** keyboard provides DES encryption capability, which it applies to credit card data swiped through the magnetic stripe reader prior to that data leaving the keyboard. No other keyboard data is changed. A 56-bit key is used for encryption and it is changed after every credit card swipe. The DES algorithm uses a 64-bit data field running eight rounds. A decryption program resides on the PC to return the swiped encrypted data to its original state.

By protecting the data before it leaves the keyboard, the **CarySECURE** keyboard eliminates one of the biggest threats of theft of credit card account information through the use of readily available “ghost boxes”. Furthermore, enhanced components within the keyboard allow it to perform at the same level of throughput as it would if the data was not being encrypted.

### FEATURES/BENEFITS

- Cost-effective, secure keyboard is designed to match the functional highvolume durability requirements.
- Ergonomic design ensures comfortable operation.
- User-friendly design features improve data accuracy, input speed, and increase security of all transactions.
- Fully sealed against spills and dust! They have a matchless reputation for durability in tough POS environments, such as fast food outlets and petroleum service stations.



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# Technical Highlights

## KEYBOARDS

- 57 programmable, re-configurable key-switches
- Optional 56-key membrane with user-replaceable label sheet
- Keycap kit includes numeric pad, single, dual, and quad-sized keytops, multicoloured labels, and clear lenses
- Rugged, splash and dirt-resistant design
- High degree of protection from Electrostatic Discharge (ESD)
- Easy to configure during staging or in the field. Its unique design allows any keycap to be repositioned anywhere on the array. No switch or stabilizer changes are required.
- Internal 256 Kbit non-volatile memory
- Optional two-position keylock with manager's position
- Internal programmable beeper

## PERIPHERALS

- Optional internal single or dual-track MSR
- Second AT or PS/2-compatible keyboard port
- Internal wedge
- Scanner port (non-decoded) standard. Decoding is available as an option
- Optional MICR port
- Optional barcode decoder (wand, laser, 4680, or OCIA)
- Optional optically isolated outputs for either a cash drawer or a security video camera

## **Cary***SECURE Series* Point-of-sale secure keyboard

## PROGRAMMABLE FEATURES

### (included in setup utility)

- "Total Soft" architecture allows programming of both configuration and firmware updates
- Download or upload using either a PC keyboard or a scanner port
- Each key is programmable with a varying length string
- Additional character support is through multilevel CARY<sup>3D</sup> programming
- Automatic repeat (typematic) and audible beeper are selectable on a per-key basis
- Advanced variable-length macro capability allows extensive data manipulation on all keyboard or peripheral programming strings
- Enhanced wedge capabilities include the following:
  - Barcode: preamble and postamble
  - Magnetic stripe: preamble, postamble, and field separator LRC suppression
  - Keylock: Programmable header
- Control of upstream keyboard using a manager's key
- Programmable key output suppression based on keylock position, including Ctrl, Alt, Shift macro capability, and CARY<sup>3D</sup> level shift control



# Specifications

## ENVIRONMENTAL

- Ambient temperature  
0° to 40°C / 32° to 105° F
- Relative humidity  
20 to 90%

## ELECTRICAL

- Keyboard power  
+5Vdc + 1% 450 mA maximum
- Scanner port power  
+5Vdc = 1% 900 mA maximum
- ESD: 20 Kv minimum, keylock 17 Kv
- EMI-RFI: In accordance with  
FCC Part 15, Subpart B, Class B
- Rollover: N-Key
  
- Magnetic stripe: ISO 7811/2/3
- Memory size: 256 Kbits

## MECHANICAL

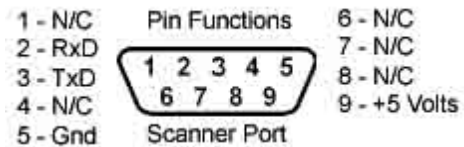
- Width: 13.25"
- Depth: 6.25"
- Height: 2.75"
- Weight: 2.4 pounds / 1.1 kg
- Key-switches: Travel: 3mm  
Actuation force – Function  
keys 40 gm
- Cycle life: 5 million operations (minimum)

## MATERIAL

- Enclosure: ABS UL 94 HB rated
- Numeric keys: ABS double slot
- Function keys: ABS with clear snap-in lenses
- Keylock switch housing:  
6/6 nylon (UL 94V-2)  
Tumblers: Brass  
Keys: 2 sets of three-coated, nickel-plated  
brass
- Switch: Silicon rubber with conductive rubber pill  
contact
- Cable: 6.5 feet / 2 m with molded DIN or mini-DIN  
connector

## COMMUNICATIONS

- Keyboard port: Upstream AT or PS/2- compatible  
5 or 6-pin mini-DIN
- Scanner port: Industry-standard serial scanner  
interface



## MEMBRANE EXPANSION MODULE

- Designed to provide retailers with a large  
number of programmable keys, increasing the  
total from 57 on the base 9000 to 113
- A new-flip top cover allows you to quickly change  
the paper label insert for reconfiguration

Dimensions of membrane expansion module  
H x W x D: 3.5 x 13.25 x 7.5 inches – 8.9 x 33.7 x 19.1 cm

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