

# Rocstor KS20T

## 104-Key Keyboard with Built-in Smart Card Reader – USB – TAA Compliant Manual

rocstor®



### Key Features

- Full-size USB Keyboard built-in Smart Card reader
- Enhanced 104-keys with large L-shaped Enter key
- USB 1.1 version
- Supports PC Smart Card industry Standard – PC/SC 2.0
- Supports smart cards ISO 7816 Class A, B, and C (5V/3V/1.8V) card
- Fully compatible for Windows ME/ 2000/XP/Vista, Windows 7, 8 & 10

### Preface

Thank you for purchasing Rocstor KS20T 104-Key Keyboard with Built-in Smart Card Reader. It is designed for use with smartcard enabled identification system. It is ideal for providing a user authentication for applications such as network login, e-government, e-commerce, healthcare and etc. This keyboard works with all smart cards that comply with ISO 7816 Class A, AB and C memory and microprocessor smart cards (T=0, T=1).

### Specification

#### Keyboard

Key Number	104/ 105 keys (US/ EU)
Key Switch	Membrane with 20 million life cycle time
Key Force/ Traveling Distance	50 + 7g / 4 + 0.5mm
LED Indication	4 LEDs, NumLock, Caps Lock, Scroll Lock, Power*
Interface / Input Power	USB 1.1, 5VDC, 100mA

#### Smart Card Reader

Standard	ISO 7816 Class A, B, and C
Protocol	Support T0, T1 protocol
Reading Speed/ Frequency	420 kbps/ up to 8Mhz
Card Type Support	5V, 3V and 1.8V smart card ISO 7816 Class A, AB, C
API Support	PCSC, CTAPI, Synchronous-API, OCF
Reliability	100K insertions

#### Others

Operating Temperature	0 to 50o Celsius (10% to 95% RH, 25oC)
Dimension ( LxWxH)	443 x 149 x 39.58 mm - 17.4 x 5.8 x 1.5 in
country of origin	Taiwan

\* Power LED indicates when the smart card inserts into card slot

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Designed/assembled/integrated in the U.S.A.  
using domestic and/or foreign components.  
Enclosure (without hard drive) is made in China

### To install the Rocstor KS20T,

1. Close any open applications and Shut Down the computer.
2. Plug USB and locate the appropriate connection receptacle on the computer.
3. Securely install the cable connector into the computer receptacle.
4. Re-start the computer.

When the Rocstor KS20T is powered, it performs a self test and initiation sequence with the computer. The keyboard power LED will flash a few times when smart card insert into slot. Other LEDs will show the status of the Scroll Lock, Num Lock, & Caps Lock functions. Test the keyboard with normal use in a text editor like Microsoft Word.

Icon	Function	LED Behavior
1	NumLock	LED On, NumLock Activated
A	CapsLock	LED On, CapsLock Activated
↓	Scroll Lock	LED On, Scroll Lock Activated
📠	Card Reading	LED flash, Card reading



## Troubleshooting

1. The smart card reader does not output data;  
The Power LED will flash few times and OFF when smart card insert into smart card slot. If not, please try other ISO 7816 Class A, B and C smart card.
2. The smart card reader sometime can't read;  
Please make sure if the smart card is well inserted into card reader to the bottom position. Or check if Rocstor KS20T, is connected to USB Hub. If so, please connect directly to PC.
3. The smart card reader cannot be recognized by Windows 10;  
Please download latest version of PS/SC driver from your distributor or Microsoft.
4. PC cannot recognize Rocstor KS20T;  
Please try other USB port or connect USB plug of keyboard to rear panel of USB port of PC.

### Technical Support / RMA

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