

## GHOST Emulators



**Boot your PC securely without  
a keyboard or mouse.**

## FEATURES

- AT→PS/2 Mouse GHOST Emulator connects a PC/AT to a KVM switch or extender with PS/2 mouse ports.
- Keyboard and Mouse GHOST Emulator plugs into a PC in lieu of a keyboard, so the PC boots but can't be used without authorization.
- Both GHOST Emulators plug into a PC in lieu of a mouse.
- AC244A converts PS/2 mouse data to serial.
- AC245A has a pass-through port for the keyboard.

## OVERVIEW

These days it seems you can never have too much data security. Hackers aside, there are any number of well-intentioned people who can, just by typing at the keyboard, accidentally compromise your unattended IBM® PC type computer systems. It'd help if you could lock up these computers' keyboards and mice, wouldn't it? But how can you, when PCs don't boot without a keyboard attached?

The Keyboard and Mouse GHOST Emulator (AC245A) helps keep unauthorized users from poking around on your PCs. When, instead of a keyboard, you attach this emulator to a computer, the emulator sends the booting PC the responses that a keyboard would. So the PC boots and operates normally, without an attached keyboard to attract the itchy fingers of the uninvited.

The AT→PS/2 Mouse GHOST Emulator (AC244A) and the Keyboard and Mouse GHOST Emulator (AC245A) do the same thing with the PC's mouse port (which must be serial for the AT→PS/2 Mouse GHOST Emulator, PS/2 type for the Keyboard and Mouse GHOST Emulator). A GHOST Emulator attached to the mouse port sends mouse responses to the booting PC, so that the PC boots properly, loads its mouse driver, etc., without an attached mouse.

Both of these emulators are easy to install, include cables, and don't require user intervention once they are hooked up. They're all powered by a PC interface rather than an external power supply: The AT→PS/2 Mouse GHOST Emulator is powered by the serial mouse interface; the Keyboard and Mouse GHOST Emulator is powered by the keyboard interface.

The AT→PS/2 Mouse GHOST Emulator has a passthrough connector—designed for a PS/2 mouse, because it also functions as a PS/2 to serial mouse converter. (You can use it, in fact, to attach a PC/AT® to a KVM switch or extender that has only PS/2 mouse ports.) Plus, it's hot-swappable.

The Keyboard and Mouse GHOST Emulator has both keyboard connectors, as well as both output and passthrough PS/2 mouse connectors for mouse emulation and hot-swapping.

## TECH SPECS

### Compliance —

AC244A: CE; FCC Part 15 Subpart B IC Class A/classe A;  
AC245A: FCC Part 15 Subpart B IC Class A/classe A

### Operating System Required —

No operating system requirements

### System Hardware Required —

AC244A: IBM PC/AT or compatible;  
AC245A: IBM PS/2 or compatible

### User Controls —

None

### Interface —

AC244A: IBM PS/2 mouse and TIA/EIA RS-232 (serial mouse);  
AC245A: IBM PS/2 keyboard and mouse

### Connectors —

AC244A: (1) DB9 F to PC's mouse port; (1) 6-pin mini-DIN F to optional mouse;

AC245A: (2) 6-pin mini-DIN M on nondetachable cable: (1) to PC's keyboard port; (1) to PC's mouse port;

### Indicators —

None

### Temperature Tolerance —

AC244A: Operating: 41 to 104°F (5 to 40°C);

Storage: -4 to +176°F (-20 to +80°C);

AC245A: Operating: 32 to 114°F (0 to 45°C);

Storage: -40 to +176°F (-40 to +80°C)

### Humidity Tolerance —

AC244A: Up to 80% noncondensing;

AC245A: Up to 95% noncondensing

### Power —

AC244A: Approximately 15 mA (DC voltage used depends on how much the PC provides) from PC's RS-232 serial mouse interface;

AC245A: 4.75 to 5.25 VDC, 100 mA from PC's keyboard interface

### Size —

AC244A: 0.8"H x 1.3"W x 6"D (2 x 3.3 x 15.2 cm);

AC245A: 1"H x 1.5"W x 3"D (2.5 x 3.8 x 7.6 cm);

attached cables are 14" (35.6 cm) long

### Weight —

AC244A: 1 oz. (28 g);

AC245A: 5 oz. (142 g)

Item	Code
AT→PS/2 Mouse GHOST Emulator	<b>AC244A</b>
Keyboard and Mouse GHOST Emulator	<b>AC245A</b>
<b>You might also need...</b>	
Keyboard Adapters	
PC/AT Keyboard to PS/2 Keyboard Port (5-Pin DIN Female to 6-Pin Mini-DIN Male)	<b>FA211</b>
PS/2 Keyboard to PC/AT Keyboard Port (6-Pin Mini-DIN Female to 5-Pin DIN Male)	<b>FA212</b>
Data Line Surge Protectors	
for PC/AT Type Keyboard	<b>SP518A-R2</b>
for PS/2 Type Keyboard or Mouse	<b>SP519A-R2</b>

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