Black Box Corporation
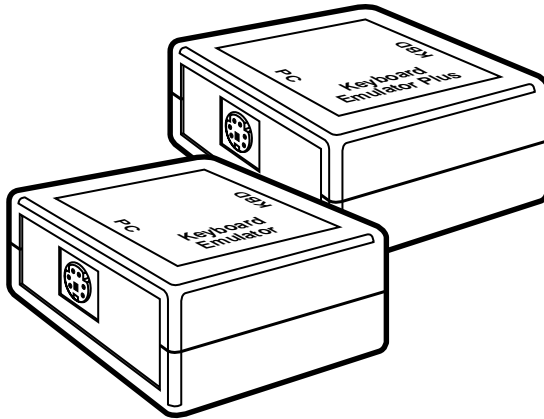*The World's Source for Connectivity*℠

Keyboard Emulator
Keyboard Emulator Plus

1. Introduction

The Keyboard Emulator (AC242A), as its name implies, emulates the presence of a keyboard for your PC. When you use the included cable to connect it to your PC's keyboard port, your PC can boot up and operate without a keyboard being attached.

The Keyboard Emulator Plus (AC243A) works the same way as the regular Keyboard Emulator, but it also has an extra 6-pin mini-DIN female port that you can plug a keyboard into any time you do want to control your PC or input to it through a keyboard.

2. Installation

To install the Keyboard Emulator or Emulator Plus, take these steps:

1. Turn off the PC.

2. Unplug its keyboard.

3. Plug one end of the included 6-pin mini-DIN cable into a 6-pin mini-DIN female connector on the Keyboard Emulator or Emulator Plus. (Use the connector labeled "CPU" on the Emulator Plus.) Plug the other end of this cable into the PC's keyboard port in place of the keyboard.

---

4. Turn on the PC. The Keyboard Emulator should supply all the bootup responses usually supplied by the keyboard, so your PC should boot up normally. If it does not, call your supplier for technical support.

This completes the basic installation. If you are using a Keyboard Emulator Plus, you can plug a keyboard into its other female connector (labeled "KBD") at any time. (If your PC and keyboard have 5-pin DIN connectors, you can use 6-pin-to-5-pin keyboard adapters: FA212 for the CPU connection, FA211 for the keyboard connection.)

The Keyboard Emulator and Emulator Plus are designed to function as standalone units that don't require any operator intervention.

3. Troubleshooting

If you determine that your Keyboard Emulator or Keyboard Emulator Plus is malfunctioning, *do not attempt to alter or repair it.* Contact your supplier. Be prepared to describe the nature and duration of the problem, when it occurs, the components involved, and any application that seems to create the problem or make it worse.

If you need to transport or ship the Keyboard Emulator or Emulator Plus, package it carefully. Also, contact your supplier before you ship a unit for repair or return to get a Return Materials Authorization (RMA) number.

Appendix: Specifications

System Requirements — IBM® AT®, PS/2®, or compatible

Interface — IBM keyboard (6-pin)

Protocols — Scan modes 1, 2, and 3

Connectors —
AC242A: (1) 6-pin mini-DIN female;
AC243A: (2) 6-pin mini-DIN female;
(1) 6-ft. (1.8-m) cable with male 6-pin mini-DIN connectors on both ends included with both units

Power — From PC: +4.75 to +5.25 VDC at 100 mA

MTBF — 100,000 hours

Altitude Tolerance — Up to 10,000 ft. (3048 m)

Temperature Tolerance —
Operating: 32 to 158° F (0 to 70° C);
Storage: –4 to 212° F (–20 to 100° C)

Humidity Tolerance — Up to 95% noncondensing

Dimensions — 1.5"H x 2"W x 2"D (3.8 x 5.1 x 5.1cm)

Weight — 0.5 lb. (0.2 kg)

1000 Park Drive   •   Lawrence, PA 15055-1018   •   724-746-5500   •   Fax 724-746-0746

AT, IBM, and PS/2 are registered trademarks of International Business Machines Corporation.