

Phantom Manager Card

Quick Installation Guide



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1. What is the Phantom system?

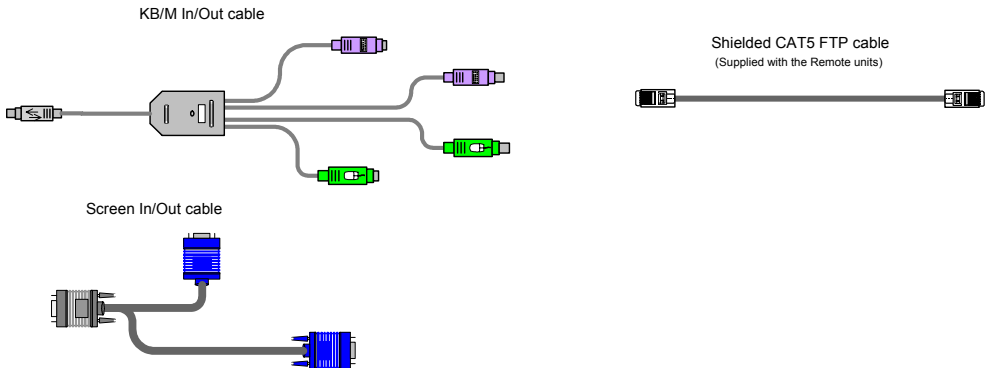
The Phantom system from Minicom is a distributed KVM switching solution. A Phantom Manager – either a Universal Phantom Manager box or PCI Card – controls remote computers each connected to a Phantom Remote unit. The Remote units can be either internal PCI cards or external boxes called Specters.

Shielded CAT5 FTP cables connect the Phantom Manager to the nearest Remote, and that Remote to the next one, and so on, in a daisy chain pattern. The last Remote can be up to 110m/360ft away from the Manager.

This Quick Installation Guide illustrates the Manager card cables and explains how to install it. For further information please see the softcopy Guide on the Marketing & Documentation CD.

2. The Manager card cables

The cables below connect to the Manager card.



3. Manager card accessories

The accessories below are explained fully in the softcopy Guide.

RS232 serial cable -
For Phantom applications



Terminator -
Connects to last Remote in daisy chain



In Line Coupler -
To bypass Remote units



4. Pre-installation instructions

Disconnect all computers from the electrical power supply.

Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.

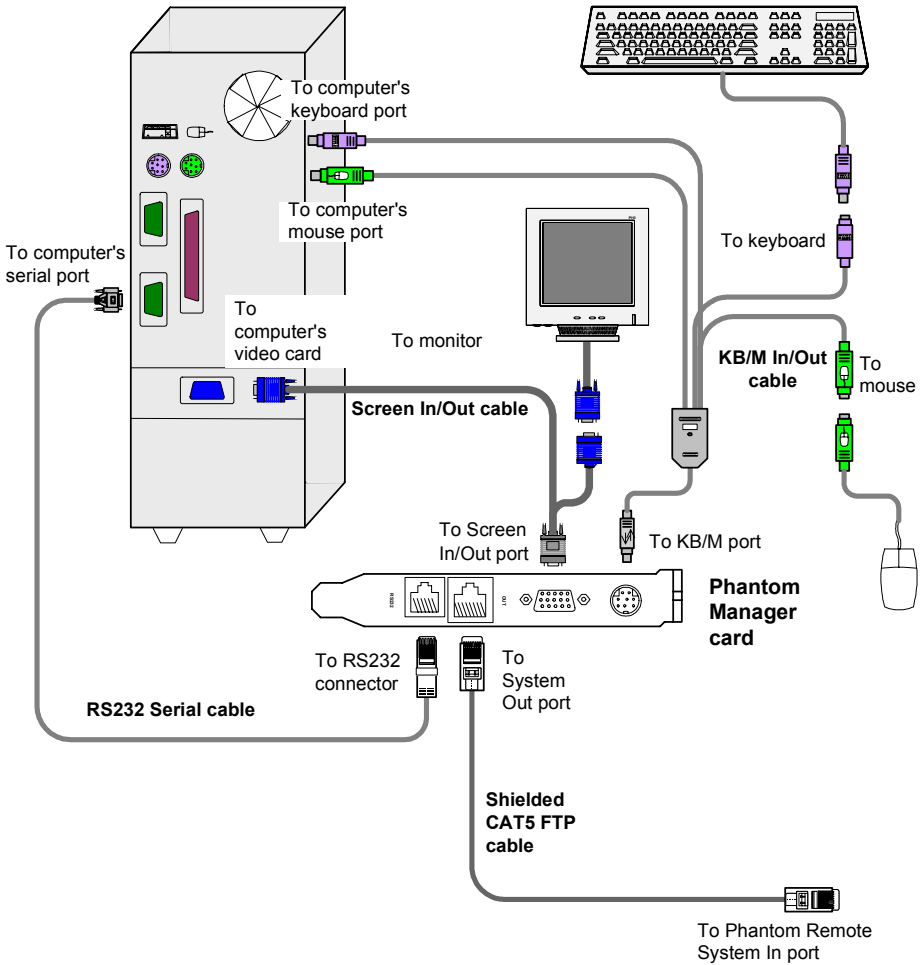
5. Installing the Manager card

Install the Manager card into any available PCI slot of the designated manager computer. In order to avoid electrostatic damage to the card, discharge any static electricity you may be carrying. You can do this by touching any grounded object.

6. Connecting the Manager card

Connect the cables to the Manager card and computer as illustrated in the figure below.

Note! The RS232 cable is also illustrated. It only needs to be connected for carrying out Phantom applications such as firmware upgrades and numbering, but not for running the Phantom system. The RS232 cable is also used to operate the system through the RS232 port.



7. What happens next?

Install the Phantom Remotes and set keyboard and mouse settings. These steps are explained in *The Phantom Remote – Quick Installation Guide*, and the *Read This First (RTF)*. The Phantom system is then ready for use.

8. USB SUN Combo keys

The PS/2 keyboard connected to the Phantom Manager does not have a special SUN keypad to perform special functions in the SUN Operating System environment. So when a Specter USB or SUN is connected to a SUN computer, the Specters emulate these SUN keys using a set of key combinations called Combo keys. See the table below.

SUN key	Combo key
Stop	Left Ctrl + Alt + F1
Props	Left Ctrl + Alt + F3
Front	Left Ctrl + Alt + F5
Open	Left Ctrl + Alt + F7
Find	Left Ctrl + Alt + F9
Again	Left Ctrl + Alt + F2
Undo	Left Ctrl + Alt + F4
Copy	Left Ctrl + Alt + F6
Paste	Left Ctrl + Alt + F8
Cut	Left Ctrl + Alt + F10
Help	Left Ctrl + Alt + F11
Compose	Application key or Left Ctrl + Alt + Keypad *
Crescent	Scroll Lock
Volume Up	Left Ctrl + Alt + Keypad -
Volume Down	Left Ctrl + Alt + Keypad +
Mute	Left Ctrl + Alt + F12
Sun Left ◊ key	Left Windows key
Sun Right ◊ key	Right Windows key
Alt-Graph	Right Alt or Alt Gr
Stop A	Left Ctrl + Alt + 1



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