Quick Start Guide

IP Remote Access Unit

Model: B051-000

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Package Contents

- B051-000
- 4 ft. USB/PS2 Combo Cable Kit
- 10 in. USB/PS2 Combo Console Cable Kit
- 6 ft. USB 2.0 LUC Cable (5-Pin Mini-B Male to A Male)
- 5 ft. External Power Supply (Input: 100-240V, 50/60 Hz, 0.5A; Output: 5.3V 2.4A)
- Rack-Mount Bracket
- DIN Rail Brackets
- CD with Software and Owner’s Manual
- Quick Start Guide

Remote Console Computer Requirements

- Browsers must support 128-bit SSL encryption
- For the browser-based Java Applet and non-browser AP Java Client, the latest version of Sun’s Java Runtime Environment (JRE) must be installed, and 250 MB of memory available after installation
- For the Log Server, you must have the Microsoft Jet OLEDB 4.0 or higher driver installed
- For best results, we recommend the computers used to access the switch have at least a Pentium III, 1 GHz processor, with their screen resolution set to 1024 x 768
- For best results, we recommend a network transfer speed of at least 512 kbps
- For the browser-based Windows Client, at least 60 MB of memory must be available after installation
- For the non-browser Windows Client, at least 25 MB of memory must be available after installation

Connected Computer/Server Requirements

Computers/servers to be connected to the B051-000 must have the following:

- VGA, SVGA or Multisync port
- For USB Connections: Type A USB port and USB host controller
- For PS/2 Connections: 6-pin mini-DIN keyboard and mouse ports

Supported Operating Systems

- Compatible with all major operating systems
Supported Video Resolutions

Only the following non-interlaced video signals are supported:

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Refresh Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>640 x 480</td>
<td>60, 72, 75, 85, 90, 100, 120</td>
</tr>
<tr>
<td>720 x 400</td>
<td>70</td>
</tr>
<tr>
<td>800 x 600</td>
<td>56, 60, 72, 75, 85, 90, 100, 120</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>60, 70, 75, 85, 90, 100</td>
</tr>
<tr>
<td>1152 x 864</td>
<td>60, 70, 75, 85</td>
</tr>
<tr>
<td>1280 x 720</td>
<td>60</td>
</tr>
<tr>
<td>1280 x 1024</td>
<td>60, 70, 75, 85</td>
</tr>
<tr>
<td>1600 x 1050</td>
<td>60</td>
</tr>
<tr>
<td>1600 x 1200</td>
<td>60</td>
</tr>
<tr>
<td>1920 x 1080</td>
<td>60</td>
</tr>
<tr>
<td>1920 x 1200</td>
<td>60</td>
</tr>
</tbody>
</table>

Supported Browsers

Supported browsers for users that remotely log into the B051-000 include:

<table>
<thead>
<tr>
<th>Browser</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet Explorer (32-bit)*</td>
<td>6 and higher</td>
</tr>
<tr>
<td>Chrome</td>
<td>8.0 and higher</td>
</tr>
<tr>
<td>Firefox</td>
<td>3.5 and higher</td>
</tr>
<tr>
<td>Mozilla</td>
<td>1.7 and higher</td>
</tr>
<tr>
<td>Safari</td>
<td>4.0 and higher</td>
</tr>
<tr>
<td>Opera</td>
<td>10.0 and higher</td>
</tr>
<tr>
<td>Netscape</td>
<td>9.1 and higher</td>
</tr>
</tbody>
</table>

* Internet Explorer 64-bit is not supported.

Front View

1. LAN Port: The Cat5e/6 cable that connects the B051-000 to a network plugs in here.
2. LUC Port: This laptop USB console (LUC) port allows a laptop to be used as a console for accessing the unit.
3. Reset Switch:
   1. Pressing and releasing this switch will perform a system reset.
   2. Pressing and holding the switch for more than 3 seconds restores the B051-000 to its factory default configuration settings.
   3. Pressing and holding this switch while powering the unit on will restore the factory default firmware version. This operation should only be performed in the event of a firmware upgrade failure that results in the device becoming inoperable.

   Note: This switch is recessed and must be pushed with a thin object, such as the end of a paper clip or ballpoint pen.
Front View

4 10/100/1000 Mbps LED Indicates the data transmission speed.

<table>
<thead>
<tr>
<th>LED Color(s)</th>
<th>Transmission Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange</td>
<td>10 Mbps</td>
</tr>
<tr>
<td>Orange + Green</td>
<td>100 Mbps</td>
</tr>
<tr>
<td>Green</td>
<td>1000 Mbps</td>
</tr>
</tbody>
</table>

5 Link LED Flashes green to indicate the B051-000 is being accessed remotely.

6 Power LED Illuminates orange when the B051-000 is powered-on and ready to operate.

Rear View

1 Power Jack The included power adapter connects to the unit here.

2 PC/KVM Port The KVM cable kit that connects the B051-000 to a KVM switch or server connects to the unit here.

3 Console port The console connector kit that connects a Local Console to the B051-000 connects to the unit here.

4 RS-232 port An RS-232 serial port is provided for out-of-band and low bandwidth modem and serial terminal connections.

Rack Mounting

For convenience and flexibility, the B051-000 comes with a 0U rack-mount kit so the unit can be conveniently mounted on a system rack.

To rack mount the unit:

1. Remove the two original screws from the bottom of the unit (near the rear of the unit).

2. Using the screws and bracket provided with the rack-mount kit, screw the mounting bracket into the B051-000 as shown in the diagram.
**Rack Mounting**

Screw the bracket into any convenient location on the rack.

*Note:* Rack screws are not provided. Use screws that are appropriate for your rack.

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**DIN Rail Mounting**

To mount the B051-000 on a DIN rail:

1. Screw the mounting bracket to the back of the B051-000 as described in Steps 1 and 2 of the Rack Mounting Section.

2. Use the larger screws supplied with the rack-mount kit to screw the DIN rail brackets to the mounting bracket as shown in the diagram.

3. Hang the unit on the DIN rail.
Make sure that power to all of the devices you will be connecting is turned off.

Using the included USB/PS2 Combo Console Cable kit, connect the PS/2 – USB Console port on the unit to a VGA monitor, and a USB or PS/2 keyboard and mouse.

*Note:* You can connect any combination of keyboard and mouse; USB and PS/2, USB and USB, or PS/2 and PS/2.

Using either the USB or PS/2 KVM cable kits that came with the unit, connect the PC/KVM port to the VGA monitor and USB or PS/2 keyboard/mouse ports to a computer or KVM switch.

*Note:* The installation diagram shows a USB KVM cable kit. The PS/2 KVM cable kit is the same, except it has (x2) PS/2 connectors to connect to the PS/2 ports on a computer or KVM switch. Use the cable kit appropriate to your installation.

(Optional) Connect a modem or other RS-232 serial device to the unit’s RS-232 serial port.

Using a standard Cat5e/6 patch cable, connect the unit’s LAN port to your network.

Connect the included external power supply to the unit’s power jack, then plug it into a Tripp Lite Surge Protector, UPS or PDU.

(Optional) When using the laptop USB console (LUC) feature, use the included USB Mini-B cable to connect the unit’s LUC port to a USB port on a laptop.

Power on your installation, starting with the B051-000, then the computer or KVM switch followed by any other connected devices.
Laptop USB Console (LUC)

The unit’s front panel features a USB Mini-B port, which connects to the USB port on a laptop, to provide console control of the unit. To use this feature, connect your laptop to the LUC port on the front of the unit using a USB Mini-B cable. When connected, an extra drive will appear in your computer’s “My Computer” screen. Click on this drive to open the Windows and Java Non-Browser Clients. Run the desired client to access the unit. The client’s login screen will appear, with the unit showing up as a USB Mass Storage device in the Login Screen’s Server List. Highlight the unit, then connect per the instructions in the Non-Browser Login section of this Quick Start Guide.

Administrator Setup

First Time Setup

Once the B051-000 has been installed, the Administrator must prepare the unit for user operation by setting the network parameters and adding users.

Network Setup - IP Address Determination

Administrators logging in for the first time must access the B051-000 in order to provide an IP address so users can connect. You can do this via Web Browser, the IP Installer utility, or the non-browser Windows or Java Client applications.

Web Browser

By default, the B051-000 is set to have its IP address assigned automatically via DHCP server. If it is connected to a network without a DHCP server, it boots with a default IP address. On IPv4 networks, the default IP is 192.168.0.60. If it is on an IPv6 network, the default IP address is determined by the B051-000’s MAC address. For example, if the MAC address is 00-10-74-13-81-01, the IPv6 address is FE80::0:0:0010:74FF:FE13:8101. The parts of the IP address that are in bold and underlined are fixed.

1. Enter the unit’s IP address into your web browser.
2. You may be prompted by a screen stating that there is a problem with this website’s security certificate. Click on the option to continue to the website anyway. (See Web Browser Login section for details on installing the security certificate)
# Administrator Setup

3. You will be directed to a login page with Username and Password prompts. The default Username is `administrator` and the default Password is `password`. The Admin Utility Main Page will open upon entering the Username and Password.

4. Click the *Network* icon on the side of the page to open *Network Settings*.

5. By default, the *Obtain IP address automatically [DHCP]* checkbox is checked. To set a fixed IP address, check the *Set IP address manually [Fixed IP]* check box in the IPv4 or IPv6 settings section, depending on your network.

6. The *IP Address*, *Subnet Mask* and *Default Gateway* fields will be activated upon checking the *Set IP address manually [Fixed IP]* checkbox. Fill in these fields with information appropriate for your network.
Administrator Setup

7. As with the IP Address settings, the DNS Server settings can be obtained automatically or assigned manually. To manually enter these settings, check the Set DNS server address manually checkbox and fill in the Preferred DNS server and Alternate DNS server fields with information appropriate for your network. Note: The Alternate DNS server field is optional.

8. When you have entered the IP Address and DNS Server settings, click the Apply button. Clicking the Apply button will automatically check the Reset on exit checkbox located in the Customization page of the Admin Utility. When you log out, the unit will be reset and your network changes will be applied.

See Network Settings section in the Owner’s Manual for complete information on the rest of the settings located in this page.

Non-Browser Client

The included CD contains Windows and Java Client applications that allow you to remotely access the B051-000 and its Admin Utility without using a web browser. The applications function is the same. However, the Windows Client is designed for Windows computers, whereas the Java client is designed for either Windows or non-Windows computers. When accessed from a computer that is on the same network as the IP remote access unit, the client will search the network for the device and display it in a device list for you to access. If accessed from a computer that is not on the same network as the IP remote access unit, you must obtain the IP address from your network administrator and manually enter it into the client. (See Web Browser section above for information on obtaining the IP address) To use the Windows or Java client to assign a fixed IP address, follow the steps below.

1. Save the Windows or Java client from the CD to a desired location on your computer. Double-click the file to open it.

2. When accessing the Windows Client for the first time, it will need to be installed on your computer. Follow the installation prompts that appear. Once installed, a Windows Client icon will appear on your desktop.
Administrator Setup

3. When accessing either the Windows or the Java client for the first time, you will be prompted to enter the product serial number, which can be found on the CD. Once entered, you will not be prompted for it again. The non-browser client connection screen appears.

4. If you are on the same network as the B051-000, the client will locate and display it in the Device List. In this case, highlight the unit in the device list and click the Login button. If you are not on the same network as the unit, it will not be displayed in the list. You must manually enter the IP address in the IP Address field, then click the Connect button.
5. Upon clicking the Connect button, you will be prompted to enter a Username and Password. The default Username is administrator and the default Password is password.

6. Click the Remote View button to initiate a remote session. Then, using the remote tool bar at the top of the screen, click the Open GUI icon to open the unit’s administrative interface. The non-browser interface contains most of the features contained in the browser version, but are presented in a different format.

7. Click the Network tab on the left of the screen. From here, a fixed IP address can be assigned in the same way as when using a web browser. (See steps 4 through 8 in the Web Browser section.)
Administrator Setup

IP Installer

The included CD contains a Windows-based IP Installer utility that can be used to obtain and edit the IP address. To use the IP Installer utility, the computer you are using must be running a Windows operating system and must be on the same network as the IP remote access unit. Also, the IP Installer setting in the Admin Utility must be set to Enabled, which it is by default. (See the ANMS section in the Owner's Manual for details)

1. Save the IP Installer utility file to a desired location on your computer. Double-click on the file to open the IP Installer utility.

2. Select the B051-000 from the Device List.

   **Note:** If the list is empty or your device doesn't appear, click the Enumerate button to refresh the Device List. If there is more than one device in the list, use the MAC address on the bottom of your unit to determine the desired device.

3. To assign a fixed IP address, check the Specify an IP address checkbox and fill in the IP Address, Subnet Mask and Default Gateway fields with information appropriate for your network.

4. Click the Set IP button to apply the changes to the unit. The new IP address will appear in the Device List.

5. Click the Exit button to exit the IP Installer utility.
The B051-000 IP remote access unit can be accessed in several ways: local console, web browser, non-browser Windows or Java client. This section describes the login procedures for each of these methods.

**Local Console Login**

When accessing the unit via local console, there is no login required except for what is required to access the connected computer or KVM switch. The local keyboard, monitor and mouse function the same as if they were connected directly to the computer or KVM.

**Web Browser Login**

To log into the IP remote access unit via web browser, follow the steps below.

*Note:* Windows Vista and later users who intend to use the unit’s Virtual Media feature must run Internet Explorer as an administrator. (See Virtual Media section in the Owner’s Manual for details.)

1. Open your browser and enter the IP address of the B051-000 as given to you by your system administrator.

   *Note:* For security purposes, a login string may have been set by the administrator. If so, you must include a forward slash and the login string following the IP address. For example, to access a B051-000 with an IP address of 192.168.0.60 and a login string of B051000, you would enter the URL as 192.168.0.60/B051000.

2. When logging in for the first time, a security alert appears to inform you that the device’s certificate is not trusted, and asks if you want to proceed. The certificate can be trusted, but the alert is triggered because the certificate’s name is not found in the browser’s list of trusted certificates.

   You have two options:
   - If working on a computer other than your own, choose to proceed with your session, even though the certificate is not trusted.
   - If working on your own computer, install the certificate by following the steps below.

   *Note:* You may need to run Internet Explorer as an administrator to install the certificate.

   a. In the Security Alert dialog box, click **View Certificate**. The certificate information dialog box appears.

   b. Click **Install Certificate**.

   c. Follow the installation wizard to complete the certificate installation. The default options are recommend.

   d. When a caution screen appears asking you to confirm installing the certificate, click Yes.

   e. Click **Finish** to complete the installation and click **OK** to close the dialog box. The certificate is now trusted.
Logging In to the B051-000

You may continue to receive a security alert stating that the name on the security certificate does not match the name attached to the website. Follow the steps below to correct this issue.

a. In Internet Explorer, go to the Tools > Internet Options menu and click the Advanced tab.

b. In the Settings list, scroll down and uncheck the Warn about certificate address mismatch setting.

Note: In order for this setting to take effect, you must close out of and restart Internet Explorer.

3. A login page appears asking you to enter a username and password. Enter in your username and password as given to you by your system administrator. If you are an administrator logging in for the first time, the default username is administrator and the default password is password.

Non-Browser Login

The included CD contains Windows and Java Client applications that allow you to remotely access the B051-000 and its Admin Utility without using a web browser. The applications function is the same. However, the Windows Client is designed for Windows computers, whereas the Java client is designed for either Windows or non-Windows computers. If you do not have access to the CD, obtain a copy of the Windows and/or Java Client from your system administrator.

1. Save the Windows or Java client to a desired location on your computer. Double-click on the file to open it.

2. When accessing the Windows Client for the first time, it will need to be installed on your computer. Follow the installation prompts that appear. Once installed, a Windows Client icon will appear on your desktop.

3. When accessing either the Windows or the Java client for the first time, you will be prompted to enter the product serial number, which can be found on the CD. If you do not have access to the CD, obtain the serial number from your system administrator. Once entered, you will not be prompted for it again. The non-browser client connection screen appears.
**Logging In to the B051-000**

4. If you are on the same network as the B051-000, the client will locate and display it in the Device List. In this case, highlight the unit in the device list and click the **Connect** button. If you are not on the same network as the unit, it will not be displayed in the list. You must manually enter the IP address, as given to you by your system administrator, in the **IP Address** field, and then click the **Connect** button.

![JavaClient](image)

5. Upon clicking the **Connect** button, you will be prompted to enter a Username and Password. Enter your username and password as given to you by your system administrator. If you are an administrator logging in for the first time, the default username is *administrator*, and the default password is *password*. Click the **Remote View** button to initiate a remote session.
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WARNING: The individual user should take care to determine prior to use whether this device is suitable, adequate or safe for the use intended. Since individual applications are subject to great variation, the manufacturer makes no representation or warranty as to the suitability or fitness of these devices for any specific application.

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* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

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- Send old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)
- Send the new equipment back for recycling when this ultimately becomes waste

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