

## Important Note

To obtain a copy of the owner's manual for your B022-U08-IP or B022-U16-IP KVM, please contact Product/Technical Support. You will need to have the serial number for your product at the time of the call. Should you experience any inconsistencies in upgrading firmware or lengthy load times, please contact the Product/Tech Support team.

## NetDirector 16-Port 1U Rack-Mount IP KVM Switch, TAA

MODEL NUMBER: **B022-U16-IP**



Control up to 16 computers or servers directly from anywhere in the world via LAN, WAN or the Internet with built-in IP remote access.

## Description

The B022-U16-IP NetDirector® 16-Port 1U Rack-Mount IP KVM Switch is the smart solution for controlling up to 16 computers or servers from one monitor, keyboard and mouse, all from the next room, next door, or the next continent. Daisy-chain up to 31 additional B022-U08 switches to control up to 264 computers. The B022-U16-IP takes up just 1U of rack space and works with all major operating systems. Built-in IP access allows you to control computers via LAN, WAN or the Internet. Just log on to a Web browser using the Windows- or Java-based browser client, and navigate the user-friendly interface in English, Spanish, French, German or Japanese. You can also access the KVM Switch without a browser if you prefer. The advanced on-screen display (OSD) supports high-definition video up to 2048 x 1536 at the local console and up to 1600 x 1200 @ 60 Hz with 24-bit color depth at the remote console. Panel Array Mode allows you to remotely monitor multiple ports at the same time. Compatible with both USB and PS/2 connections using the included cable kits, the KVM Switch allows you to select a connected computer using on-console pushbuttons or keyboard hotkey commands. It also supports both IPv4 and IPv6, as well as Link Local IPv6 Address and Stateless Auto Configuration protocol. Advanced encryption technologies, such as 128-bit SSL, 128-bit RC4, 1024-bit RSA, 56-bit DES, 256-bit AES and 168-bit 3DES, keep your important data secure. The KVM Switch supports RADIUS and LDAP/S remote authentication. Three levels of security allow you to delegate proper access to approved personnel, and you can create up to 64 separate accounts.

## Features

### Complete Control from Anywhere

- Built-in IP access lets you control up to 16 computers directly from the next room, next door, or the next continent
- Remotely access computers via LAN, WAN or the Internet via Windows or Java
- Windows- and Java-based non-browser applications provide access without a browser
- Advanced on-screen display supports high-definition video up to 2048 x 1536 at the local console and up to 1600 x 1200 (@ 60 Hz) at the remote console

## Highlights

- Built-in IP access from anywhere in the world
- Daisy-chain up to 31 additional B022-U08 switches to control up to 264 computers
- Works with all major operating systems
- Compatible with both USB and PS/2 connections
- Enables up to 64 secure user accounts
- Space-saving 1U rack-mount installation

## System Requirements

### External Console

- VGA, SVGA or MultiSync monitor
- PS/2 or USB keyboard and mouse

### Computers

- VGA, SVGA or MultiSync video graphics card with HD15 port
- PS/2 or USB keyboard/mouse ports
- Any major operating system

See owner's manual for requirements for IP remote access.

## Package Includes

- B022-U16-IP NetDirector 16-Port 1U Rack-Mount IP KVM Switch
- (2) USB/PS2 Combo KVM cable kits, 6-ft. length
- USB/PS2 Combo console cable kit
- RJ11-to-DB9 firmware upgrade cable
- Mounting hardware
- External Power Supply with NEMA 1-15P Plug (Input: 100-240V, 50/60Hz, 0.5A / Output: 5.3V, 2.4A)
- Rubber feet
- Quick Start Guide



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- Panel Array Mode – remotely monitor multiple ports at the same time.

#### Built-In Security to Keep Your Data Safe

- Create up to 64 separate accounts
- 3 levels of security (Admin, User and Select) allow you to delegate proper access
- Features advanced encryption technologies, such as 128-bit SSL, 128-bit RC4, 1024-bit RSA, 56-bit DES, 256-bit AES and 168-bit 3DES
- Supports RADIUS and LDAP/S remote authentication
- LEDs built into the port-selection pushbuttons indicate when a computer is connected, powered on and selected
- Included firmware upgrade cable keeps the software up to date

#### Versatile to Meet Your Specific Needs

- Increase the number of connected computers up to 264 by daisy-chaining up to 31 B022-U08 KVM switches
- Compatible with all major operating systems
- User-friendly web management interface can be displayed in English, Spanish, French, German and Japanese
- Included cable kits let you use either USB or PS/2 keyboards and mice
- View remote sessions in black and white, reducing the amount of data traveling over the network and improving keyboard/mouse response time over IP
- Supports both IPv4 and IPv6, as well as Link Local IPv6 Address and IPv6 Stateless Auto Configuration protocol

#### Keep Your Colleagues in the Loop

- Windows-based log server records events and saves them to a searchable database
- Users who are logged in simultaneously can communicate via message board and manage port access

#### Rack-Mounted Convenience

- Mounts into just 1U to save valuable cabinet or rack space
- Rugged steel housing and premium connectors built to last

## Specifications

| OVERVIEW                           |                                                                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UPC Code                           | 037332188045                                                                                                                                                    |
| Max CPU                            | 16                                                                                                                                                              |
| Technology                         | PS/2; VGA/SVGA                                                                                                                                                  |
| VIDEO                              |                                                                                                                                                                 |
| Number of Monitors Supported       | 1                                                                                                                                                               |
| Max Supported Video Resolution     | Up to 2048 x 1536, DDC2B are supported at the local console. Video resolutions up to 1600 x 1200 @60Hz, 24-bit color depth are supported at the remote console. |
| Max Number of Ports (Entire Chain) | 128                                                                                                                                                             |
| Extended Mode                      | No                                                                                                                                                              |
| Mirror Mode                        | No                                                                                                                                                              |



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| INPUT                                     |                           |
|-------------------------------------------|---------------------------|
| AC Power Adapter Plug(s)                  | NEMA 1-15P North America  |
| AC Power Adapter Input Specs (V / Hz / A) | 100-240V / 50/60Hz / 0.5A |
| AC Power Adapter Output Specs (V / A)     | 5.3V / 2.4A               |
| AC Power Adapter Cord Length (ft.)        | 5                         |
| AC Power Adapter Cord Length (m)          | 1.5                       |
| POWER                                     |                           |
| Power Source Type                         | AC Adapter                |
| CONNECTIONS                               |                           |
| Number of Ports                           | 16                        |
| Computer/Server Ports                     | SPHD-18 (VGA, PS/2, USB)  |
| Daisy-Chain Port                          | Yes                       |
| Firmware Upgrade Port                     | Yes                       |
| PC/Server Connections                     | PS/2; USB; VGA            |
| Side A - Connector 1                      | (16) HD18 (FEMALE)        |
| Side B - Connector 1                      | (1) HD18 (MALE)           |
| Side B - Connector 2                      | (1) DB25 (MALE)           |
| Side B - Connector 3                      | (1) RJ45 (FEMALE)         |
| Side B - Connector 4                      | (1) RJ11 (FEMALE)         |
| Side B - Connector 5                      | (1) USB A (FEMALE)        |
| PHYSICAL                                  |                           |
| Color                                     | Black                     |
| Material of Construction                  | Metal                     |
| Rackmountable                             | No                        |
| Shipping Dimensions (hwd / in.)           | 9.20 x 21.30 x 4.60       |
| Shipping Dimensions (hwd / cm)            | 23.37 x 54.10 x 11.68     |
| Shipping Weight (lbs.)                    | 7.00                      |
| Shipping Weight (kg)                      | 3.18                      |
| Unit Dimensions (hwd / in.)               | 1.730 x 17.000 x 6.300    |
| Unit Dimensions (hwd / cm)                | 4.39 x 43.18 x 15.24      |
| Unit Weight (lbs.)                        | 6.50                      |
| Unit Weight (kg)                          | 2.95                      |



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| ENVIRONMENTAL                        |                                            |
|--------------------------------------|--------------------------------------------|
| Operating Temperature Range          | 32° to 122°F (0° to 50°C)                  |
| Storage Temperature Range            | -4° to 140°F (-20° to 60°C)                |
| Relative Humidity                    | 0-80% non-condensing                       |
| Operating Temperature                | 32° to 122°F (0° to 50°C)                  |
| BTUs                                 | DC5.3V 9.20W/ 58BTU                        |
| COMMUNICATIONS                       |                                            |
| Hotkey                               | Yes                                        |
| Port Control                         | Push Buttons, Hotkeys, OSD, Remote Toolbar |
| IP Remote Access                     | Yes                                        |
| Network Compatibility                | 480 Mbps                                   |
| FEATURES & SPECIFICATIONS            |                                            |
| Number of USB Hub Ports              | 1                                          |
| USB Specification                    | USB 2.0 (up to 480 Mbps)                   |
| NIAP-Certified Secure                | No                                         |
| Number of Users                      | 1                                          |
| Autoscan (Y,N)                       | Y                                          |
| Autoscan Duration                    | 1 - 255 seconds                            |
| REMOTE ACCESS                        |                                            |
| Access Type                          | Remote                                     |
| STANDARDS & COMPLIANCE               |                                            |
| External Power Supply Certifications | FCC; PSE; UL; cUL                          |
| Product Compliance                   | Trade Agreements Act (TAA)                 |
| WARRANTY & SUPPORT                   |                                            |
| Product Warranty Period (Worldwide)  | 3-year limited warranty                    |

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