

## Important Note

To obtain a copy of the owner's manual for your B020-U16-19-IPG 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 Console IP KVM Switch with 19 in. LCD, German Keyboard

MODEL NUMBER: **B020-U16-19-IPG**



KVM with built-in IP access allows control of up to 16 servers or computers from one monitor, mouse and German keyboard.

## Features

### Connect 16 Computers or Servers to a Single Monitor, Mouse and German Keyboard

This NetDirector® rack-mount KVM switch lets you access, control, boot and reboot up to 16 computers or servers at the same time. All 16 devices share one built-in 19-inch LCD, touchpad, mouse, 105-key German keyboard and IP remote access, allowing you to control the devices from the next room, next door or another continent.

### Connect up to 264 Computers to One Original Console

You can also cascade up to 31 B020-U16-19-IPG KVM switches, allowing centralized access to as many as 264 computers using a single monitor, German keyboard and mouse.

### Access Servers from Anywhere in the World

Built-in IP access allows you to control computers via LAN, WAN or the Ethernet. 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 Italian. You can also access the KVM switch without a browser. IP remote access enables system administration, BIOS-level troubleshooting, GUI application installations, equipment reboots and other functions necessary for managing a high-density data center.

### Switching Between Computers Is Fast and Easy

Use the front-panel push buttons, hotkey commands or multi-lingual On-Screen Display (OSD) with text-based interface for quick and easy toggling between computers. You can use Auto Scan mode to scan all connected computers in five-second intervals automatically. Orange LEDs indicate which computer is currently selected.

### Cables Are Included for Fast and Simple Setup

The B020-U16-19-IPG supports both PS/2 and USB connections using a P778-Series combo cable kit. One kit is required for each connected computer. Two kits come included with the B020-U16-19-IPG.

## Highlights

- Controls up to 16 servers or computers remotely via LAN, WAN or Internet
- Can daisy-chain up to 31 KVM switches to control 264 computers from one console
- External USB port lets you share a USB peripheral among connected computers
- Enables as many as 64 separate and secure user accounts
- 3 levels of security (Admin, User and Select) allow you to delegate proper access

## System Requirements

- Any major operating system
- Any major web browser
- Pentium III 1 GHz processor
- DirectX 7.0 or higher (Windows) or Java 2 1.4.2 or higher (Java)
- Network transfer speed of 128 Kbps or higher
- HD15 port
- USB or PS/2 keyboard/mouse ports

## Package Includes

- B020-U16-19-IPG 16-Port 1U KVM Switch
- (2) P778-Series USB/PS2 combo KVM cable kits
- USB/PS2 combo external console cable kit
- Grounding wire
- RJ11 to DB9 firmware upgrade cable
- C13 to C14 power cord
- Rack-mounting hardware



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Because compatibility is based on common hardware standards rather than system software dependencies, almost any platform can be accommodated. Connect multiple versions of multiple platforms in any combination, including Windows and Linux operating systems. The firmware is upgradable using the included cable to ensure software remains up to date.

#### USB Port Lets You Share Peripherals between Computers

The built-in USB port allows you to share a USB-A peripheral, such as a flash drive or card reader, between all connected computers.

#### Transmits High-Definition Video

The B020-U16-19-IPG supports video resolutions up to 1280 x 1024 (at 75 Hz) at the built-in 19-inch monitor and up to 1600 x 1200 (at 60 Hz) at the remote console.

#### Built-In Security Keeps Your Data Safe

The B020-U16-19-IPG supports RADIUS and LDAP/S remote authentication. Advanced encryption technologies, such as 512-bit RSA, 256-bit AES, 56-bit DES, 168-bit 3DES, 128-bit RC4 and 128-bit SSL, keep your important data secure. The B020-U16-19-IPG lets you create up to 64 user accounts with 3 levels of password protection (Admin, User and Select) to prevent unauthorized persons from gaining access to connected servers. IP remote access is further protected with security features, including filtering that only allows designated IP and MAC addresses access to the KVM switch.

#### Designed for Convenient Mounting with Included Hardware

The heavy-duty steel housing comes with mounting hardware for 1U installation in an EIA-standard 19-inch rack from 26 to 38 inches deep. The LCD folds down when not in use, and the console locks into place to prevent sliding out of the rack. The detachable six-foot C13-to-C14 power cord connects the KVM switch to an AC power source.

## Specifications

OVERVIEW	
UPC Code	037332284235
Console	Yes
Max CPU	16
Technology	PS/2; VGA/SVGA
VIDEO	
Number of Monitors Supported	1
Resolutions Supported	Up to 1280 x 1024 (@75 Hz) at the built-in 19-inch monitor and up to 1600 x 1200 (@ 60 Hz) at the remote console.
Max Supported Video Resolution	Up to 1280 x 1024 (@75 Hz) at the built-in 19-inch monitor and up to 1600 x 1200 (@ 60 Hz) at the remote console.
Max. Distance (Between any 2 Units)	49 FT. (15 M.)
Max Number of Ports (Entire Chain)	128
Extended Mode	No
Mirror Mode	No
HDR Support	No
3D Video Supported	No
INPUT	



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AC Power Adapter Plug(s)	IEC-320-C14
AC Power Adapter Input Specs (V / Hz / A)	250V / 10A
AC Power Adapter Cord Length (ft.)	6
AC Power Adapter Cord Length (m)	1.8
Nominal Input Voltage(s) Supported	100V AC; 110V AC; 115V AC; 120V AC; 127V AC; 140V AC; 200V AC; 208V AC; 220V AC; 230V AC; 240V AC
Recommended Electrical Service	100-250V
Maximum Input Amps	1.0
Input Frequency	50/60Hz
Input Current	120V (0.8A) / 230V (0.4A)
Power Input Receptacle	IEC-320-C14
Redundancy - Dual Power Inputs	No
Bus Powered	No

#### 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	(2) RJ45 (FEMALE)
Side B - Connector 4	(2) USB A (FEMALE)
Side B - Connector 5	(1) RJ11 (FEMALE)
Computer Keyboard and Mouse Interface	PS/2; USB
Computer Monitor Interface	VGA

#### USER INTERFACE, ALERTS & CONTROLS

LED Indicators	Online: 16x (Orange); Port ID: 1x 2-digit, 7-Segment (Yellow); Station ID: 1x 2-digit, 7-Segment (Yellow); Power: 1x (Dark Green); Lock: 1x Num Lock (Green) 1x Caps Lock (Green) 1x Scroll Lock (Green)
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#### PHYSICAL

Color	Black
Material of Construction	Metal; Plastic
Housing Color	Black
Included Mounting Accessories	Rackmount Hardware Pre-Installed



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LCD Monitor (cm)	48.26
LCD Monitor (in.)	19
Total Number of Ports	16
Rackmountable	Yes
Shipping Dimensions (hwd / in.)	5.11 x 26.18 x 32.67
Shipping Weight (lbs.)	42.50
Shipping Weight (kg)	19.28
Unit Dimensions (hwd / in.)	1.728 x 18.890 x 27.000
Unit Dimensions (hwd / cm)	4.39 x 48.00 x 68.58
Unit Packaging Type	Box
Unit Weight (lbs.)	31
Unit Weight (kg)	14.06
Rack Units	1
<b>ENVIRONMENTAL</b>	
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% to 80% RH, Non-Condensing
Operating Temperature	32° to 122°F (0° to 50°C)
BTUs	30.8 BTUs
<b>COMMUNICATIONS</b>	
Hotkey	Yes
Port Control	Push Buttons, Hotkeys, OSD, Remote Toolbar
IP Remote Access	Yes
Network Compatibility	1000 Mbps
EDID Compatible	No
IR Remote Extension Support	No
<b>PORT EXPANSION</b>	
Daisy-chainable or Cascadable	DAISYCHAIN
<b>FEATURES &amp; SPECIFICATIONS</b>	
USB Specification	USB 2.0 (up to 480 Mbps)
NIAP-Certified Secure	No
Number of Users	1
Autoscan (Y,N)	Y



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On-Screen Display (OSD)	No
Port Selection	Hotkey; OSD; Pushbutton
Driver Required	No
Autoscan Duration	USER-DEFINABLE (1 TO 255 SECONDS)
<b>REMOTE ACCESS</b>	
Modem Port	No
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Certifications	CAN/CSA-C22.2 No. 62368-1 (Canada); EN 55032; EN 55035; IEC 62368-1; NOM (Mexico); UL 62368-1
Product Compliance	CE (Europe); FCC Part 15 Class A (USA); FCC Part 15 Class B (USA); RoHS; UKCA
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	3-year limited warranty

1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
<https://tripplite.eaton.com>

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