



## ENTERPRISE SALES GUIDE

Your complete guide to the Avocent  
Enterprise family of products

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## Company overview



**Avocent®** was formed in 2000 from the merger of the world's two largest KVM (keyboard, video and mouse) switch manufacturers: Apex and Cybex Computer Products Corporation. Our unique integration of hardware, software and embedded technologies provides a single interface to quickly and efficiently manage your IT infrastructure. We help you solve system problems anytime, anywhere, no matter the location or health of your servers or network devices.

Avocent has more than two decades of combined experience in providing manageability solutions for businesses of all sizes. We help IT staff meet the challenge of attempting to be everywhere, all of the time.

Avocent has grown through product innovations, global expansion and strategic acquisitions. In 2001, Avocent acquired Equinox Systems; 2C Computing was acquired in 2002; and Soronti, Inc. in 2003. Crystal Link Technologies, OSA Technologies, Inc., and Sonic Mobility, Inc. were acquired in 2004. Cyclades Corporation and LANDesk Corporation were acquired in 2006.

### **Avocent Solutions Connect and Manage IT Infrastructures**

We continue to lead the market with connectivity and manageability solutions that centralise control of not only servers, but also network devices in multiple locations. IT management solutions are available for the data centre, branch locations and small to midsize businesses.

The history of Avocent innovations that have advanced the IT industry include: multi-platform/multi-user switching, analog matrix switching, extension over CAT 5, PCI bus extension, patented on-screen menus, remote KVM over IP connectivity, digital serial over IP, digital-analog integrated access to multiple servers, wireless KVM, hand-held solutions, and hub and spoke failover technology.

Our IP-based manageability systems eliminate distance limitations and provide 24/7 access and control of your data centre. Avocent centralised management software allows IT administrators to sit at a single console and have secure, local and remote control of multiple servers, serial devices, IPMI proxy appliances and power management systems.

### **Serial and Audio-Visual Solutions**

These solutions provide serial connectivity, audio and video extension both wired and wireless, and control systems for broadcast studios. Avocent multi-interface serial hubs and multiport adapters help you manage ports easily at the point of need whether local or remote. Professional audio and video extension products help you reach your target audience while increasing productivity and saving money. Serial and audio-visual solutions are used in many applications including retail point of sale, digital signage and broadcasting.

### **Mobile Solutions**

Multiple platform mobile solutions include software that allows the use of mobile devices to manage network and data centre infrastructures. Mobile solutions software provides increased network security when you are managing cellular PDAs, smartphones and similar devices. It is specifically designed for system administrators who manage a distributed workforce, remote sales team or service team.

### **Global Reach**

The Avocent family of KVM and related solutions are installed in Fortune 100 companies and other client sites around the world. Customers include Microsoft Corp., Intel, HP, Dell, IBM, Time Warner, Verizon, General Electric, Exxon Mobile, Disney, FedEx and Home Depot, among others.

### **Worldwide Presence**

Avocent has more than 1,800 employees. Sales, operations and R&D centres are located globally, with corporate headquarters in Huntsville, Alabama.

### **Leadership**

John Cooper is chairman and CEO of Avocent. Daily operations are conducted under the direction of 16 senior officers. The Avocent eight-member board of directors includes a cross-section of business professionals from across the United States. See Investor Relations at [www.irinfo.com/avct](http://www.irinfo.com/avct) for more information.

Avocent stock is traded as AVCT on the NASDAQ Stock Market.

## DS Series

IT connectivity solutions for total infrastructure management



**DSView 3 management software and DS Series appliances give you control over your entire IT infrastructure with KVM, serial and IPMI connectivity solutions - all from a secure browser-based, single interface. Now you have access to any server or network device, all from a single interface without leaving your desk.**

### HOW IT WORKS

You can access your servers or devices with DSView 3 management software or via the browser built into the DSR® KVM over IP switch. DS Series hardware appliances include DSR KVM over IP switches, Cyclades ACS advanced console servers, Cyclades PM intelligent power distribution units and the MergePoint™ series of service processor managers.



DSView 3 management software

### Server Management over IP



### IPMI Management over IP



### DS SERIES COMPONENTS

- **The Avocent DS Series** solutions include a robust, scalable management system of software and hardware appliances that significantly reduce operational costs and increase productivity for data center and branch offices. DS Series solutions quickly access, troubleshoot and restore IT assets across the enterprise, whether close at hand or across the globe. DS Series solutions include DSView 3 management software with concurrent user licenses in addition to various configurations for power management and data logging licenses.
- **The Avocent MergePoint Series appliances** of SP managers provide secure Serial over LAN (SoL), power control, hardware monitoring and the new DirectCommand feature, which enables transparent, secure access to the SP's native interface. When used in conjunction with DSView 3 management software, the appliances provide essential server coverage, which complements the overall management infrastructure.

The MergePoint Series appliances allow enterprise-class authentication, authorisation and auditing (AAA) security and encryption, and extend this functionality to all servers. Other standard features include data logging, event detection and notification, SNMP proxy, graphing and alarms for sensors and shared access to management ports.

DS Series				
	Target Device	Virtual Media	Simultaneous Users	Platforms
<b>DSR1024</b>	1	No	1 local, 1 digital	PS/2, SUN, USB, Serial
<b>DSR1022</b>	4	No	1 local, 1 digital	PS/2, SUN, USB, Serial
<b>DSR1021</b>	8	No	1 local, 1 digital	PS/2, SUN, USB, Serial
<b>DSR1020</b>	16	No	1 local, 1 digital	PS/2, SUN, USB, Serial
<b>DSR1030</b>	16	Yes	1 local, 1 digital	PS/2, SUN, USB, Serial
<b>DSR1031</b>	8	Yes	1 local, 1 digital	PS/2, SUN, USB, Serial
<b>DSR2020</b>	16	No	1 local, 2 digital	PS/2, SUN, USB, Serial
<b>DSR2030</b>	16	Yes	1 local, 2 digital	PS/2, SUN, USB, Serial
<b>DSR2035</b>	32	Yes	1 local, 2 digital	PS/2, SUN, USB, Serial
<b>DSR4020</b>	16	No	1 local, 4 digital	PS/2, SUN, USB, Serial
<b>DSR4030</b>	16	Yes	1 local, 4 digital	PS/2, SUN, USB, Serial
<b>DSR8020</b>	16	No	1 local, 8 digital	PS/2, SUN, USB, Serial
<b>DSR8030</b>	16	Yes	1 local, 8 digital	PS/2, SUN, USB, Serial
<b>DSR8035</b>	32	Yes	1 local, 8 digital	PS/2, SUN, USB, Serial
<b>MGP5200</b>	64	N/A	N/A	IPMI 1.5, IPMI 2.0, DRAC, iLO
<b>MGP5224</b>	24	N/A	N/A	IPMI 1.5, IPMI 2.0, DRAC, iLO
<b>MGP5240</b>	40	N/A	N/A	IPMI 1.5, IPMI 2.0, DRAC, iLO

## DSView 3 Software

### Description

DSView 3 software enables secure, out-of-band, centralized management of all connected IT and network devices. DSView allows IT administrators to remotely access, monitor and control target devices on multiple platforms at numerous locations – anywhere, anytime.

For more information on DSView 3 management software user and data logger license fees and ordering details, turn to page 23 of this catalogue.

## DSR1020 and DSR2020 KVM Switches

KVM over IP switches with BIOS-level control of all connected servers and serial-based devices in your data centre.



**The 16-port DSR1020 and DSR2020 KVM over IP switches provide BIOS-level control of all connected servers and serial-based devices in your data centre.**

For easy access to your network devices, the DSR1020 switch includes a USB port, the ability to remotely power cycle connected devices, external modem support when the network is down.

DSView 3 management software, with hub and spoke architecture, provides failover authentication. Users authenticate to a central management server (the hub) or one of 15 mirror servers (the spokes). SNMP and IPMI support are also provided.



DSR2020 Switch

### DSR1020 AND DSR2020 SWITCH FEATURES

- **Compact** - KVM over IP appliance integrates KVM, an external modem and power control in one solution
- **Includes a USB local port**
- **Local and remote access** for at the rack and remote data centre management
- **Required login** at the local port for increased security
- **Provides access** to an unlimited number of servers or serial devices, no matter their location
- **DSView 3 management software**, with hub and spoke architecture, provides failover authentication
- **Includes 16 configurable ports** for maximum flexibility when connecting to servers or serial devices
- **Offers IT administrators** the ability to dial into a remotely located server or serial device
- **Remotely reboot the server** to the BIOS level or even power cycle remote devices all from a single DSView 3 software interface
- **Uses the same management interface** for the data centre and the branch offices
- **Designed for multi-platform servers**, including PS/2, Sun and USB
- **DSView 3 software advanced security** includes audit logs and the ability to assign individual user rights
- **Includes an on board Web server**

### ON BOARD WEB SERVER

The DSR1020 and DSR2020 KVM switches include an on board web server for direct access to the appliances so they can be used without DSView 3 software. More advanced facilities such as hub and spoke, notifications, scheduling, Virtual Media and centralised authentication require DSView 3 management software to be installed.

## DSR1020 and DSR2020 KVM Switches

### DSR1020 and DSR2020 KVM Switches Ordering Information

Order Details	Part Number
16-port Digital-Analogue KVM Over IP Switch, 1 digital user	DSR1020-XXX*
16-port Digital-Analogue KVM Over IP Switch, 2 digital users	DSR2020-XXX*
Server interface module for VGA PS/2 keyboard PS/2 mouse	DSRIQ-PS2
Server interface module for VGA PS/2 keyboard PS/2 mouse (extended version)	DSRIQ-PS2L
Server interface module for serial-based devices (requires UPD-xx* power supply)	DSRIQ-SRL
Server interface module for VGA, USB keyboard/mouse	DSRIQ-USB
Server interface module for VGA or 13W3, Sun keyboard / mouse	DSRIQ-VSN
Power Supply	UPD-xx*

\*Please consult Avocet price list for correct regional ordering code

### DSR1020 and DSR2020 KVM Switches Switch Specifications

MECHANICAL	Height	Width	Depth	Weight
	4.4 cm	43.2 cm	28 cm	3.3Kg (without cables)

#### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 70°C
Input Power	40 W Maximum
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz autosensing
Supported Hardware - Computer	PS/2, Sun and USB
Supported Hardware - Video Modes	VGA, SVGA (XGA, XGA-II with adapter), Maximum Local Port: 1600 x 1280, Maximum Remote Port using a DSRIQ module: 1280 x 1024 @ 75 Hz
Supported Hardware - Peripherals	USB keyboard and mouse, PS/2 keyboard, PS/2 mouse, IntelliMouse

#### STANDARDS

Approved Agency	UL, FCC, cJUL, ICES-003, CE, GS, VCCI, MIC, C-Tick, GOST
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## DSR1021 KVM Switch

Easily troubleshoot, reboot or even power cycle servers or serial devices in remote branch offices, avoiding the need for costly on-site service calls.



**The Avocent DSR1021 KVM switch is specifically designed for IT administrators who need to easily troubleshoot, reboot or even power cycle servers or serial devices in branch offices, avoiding the need for costly on-site service calls.**



DSR1021 Switch

The 8-port DSR1021 switch expands the Avocent DS Series patented, field-proven KVM over IP technology and is managed by new DSView 3 software. The DSR1021 switch includes external modem support, so IT administrators can manage remote devices if the network is down.

Combined with DSView 3 software, SNMP and IPMI support, and a Web browser, the DSR1021 switch provides on-screen, BIOS-level control of your branch offices' servers, routers and DSUs. Hub and spoke failover capability allows users to authenticate when a primary server is unavailable.

### ON BOARD WEB SERVER

The DSR1021 KVM switch includes an on board web server for direct access to the appliances so they can be used without DSView 3 software. More advanced facilities such as hub and spoke, notifications, scheduling, Virtual Media and centralised authentication require DSView 3 management software to be installed.

### DSR1021 SWITCH FEATURES

- **8-port Digital KVM over IP Switch**
- **Compact**, KVM over IP appliance integrates KVM, an external modem and power control in one solution
- **Provides access** to an unlimited number of servers or serial devices, no matter their location
- **Includes eight configurable ports** for maximum flexibility when connecting to servers or serial devices
- **Offers IT administrators** the ability to dial into a remotely located server or serial device
- **Remotely reboot the server** to the BIOS level or even power cycle remote devices - all from a single DSView 3 software interface
- **Uses the same management interface** for the data centre and the branch offices
- **Designed for multi-platform servers**, including PS/2, Sun and USB
- **DSView 3 advanced security** includes audit logs and the ability to assign individual user rights
- **Includes an on board Web server**

## DSR1021 KVM Switch

### DSR1021 KVM Switch Ordering Information

Order Details	Part Number
8-port Digital-analogue KVM over IP Switch, 1 digital user	DSR1021-XXX*
Server interface module for VGA PS/2 keyboard PS/2 mouse	DSRIQ-PS2
Server interface module for VGA PS/2 keyboard PS/2 mouse (extended version)	DSRIQ-PS2L
Server interface module for serial-based devices (requires UPD-xx* power supply)	DSRIQ-SRL
Server interface module for VGA, USB keyboard/mouse	DSRIQ-USB
Server interface module for VGA or 13W3, Sun keyboard / mouse	DSRIQ-VSN
Power Supply	UPD-xx*

\*Please consult Avocent price list for correct regional ordering code

### DSR1021 KVM Switch Specifications

MECHANICAL	Height	Width	Depth	Weight
	4.5 cm	43.2 cm	29.9 cm	3.6Kg

#### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 40°C
Storage Temperature	-30°C to 70°C
Input Power	40 W Maximum
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz autosensing
Supported Hardware - Computer	PS/2, Sun and USB
Supported Hardware - Video Modes	VGA, SVGA (XGA, XGA-II with adapter) Maximum resolution Local Port: 1600 x 1280 @75Hz, Digital Port Maximum Input Resolution 1280X1024, 75Hz
Supported Hardware - Peripherals	PS/2 keyboard, PS/2 mouse, IntelliMouse

#### STANDARDS

Approved Agency	EN55022 Class A,EN55024,EN6200-3 2,EN6100-3-3,FCC15 Class A, VCCI Class A,IEC950,EN60950,UL 1950 third edition, CSA C22.2 No.950
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## DSR1022 KVM Switch

Specifically designed for you to easily troubleshoot, reboot or even power cycle servers or serial devices in remote branch offices.



**With support for multiple network devices and remote management, the Avocent DSR1022 KVM over IP switch gives you greater access to branch office devices.**

The DSR1022 switch is specifically designed for you to easily troubleshoot, reboot or even power cycle servers or serial devices in branch offices, avoiding the need for costly on-site service calls. The DSR1022 switch includes four configurable ports for maximum flexibility and supports PS/2 and USB servers. External modem support is available if your network is down.

Managed with Avocent DSView 3 software, this solution combines SNMP, IPMI support, and BIOS-level control of your branch office's servers, routers and DSUs. Hub and spoke failover capability allows users to authenticate when a primary server is unavailable.

### ON BOARD WEB SERVER

The DSR1022 KVM switch includes an on board web server for direct access to the appliances so they can be used without DSView 3 software. More advanced facilities such as hub and spoke, notifications, scheduling, Virtual Media and centralised authentication require DSView 3 management software to be installed.



DSR1022 Switch

### DSR1022 SWITCH FEATURES

- **Single User Digital KVM over IP Switch**
- **Compact**, KVM over IP appliance integrates KVM, an external modem and power control in one solution
- **Offers IT administrators the ability** to connect into a remotely located server or serial device
- **Remotely reboot the server** to the BIOS level or even power cycle remote devices all from a single DSView 3 software interface
- **Uses the same management interface** for the data centre and the branch offices
- **Designed for multi-platform servers**, including PS/2, Sun and USB
- **Includes on board Web server**
- **DSView 3 software advanced security** includes audit logs and the ability to assign individual user rights

## DSR1022 KVM Switch

### DSR1022 KVM Switch Ordering Information

Order Details	Part Number
4-port Digital-analogue KVM over IP Switch, 1 digital user	DSR1022-XXX*
Server interface module for VGA PS/2 keyboard PS/2 mouse	DSRIQ-PS/2
Server interface module for VGA PS/2 keyboard PS/2 mouse (extended version)	DSRIQ-PS2L
Server interface module for serial-based devices	DSRIQ-SRL
Server interface module for VGA, USB keyboard/mouse	DSRIQ-USB
Server interface module for VGA, Sun keyboard/mouse	DSRIQ-VSN
Power Supply	UPD-xx*

\*Please consult Avocent price list for correct regional ordering code

### DSR1022 KVM Switch Specifications

MECHANICAL	Height	Width	Depth	Weight
	4.4 cm	43.2 cm	20.5 cm	2.4Kg

#### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 40°C
Storage Temperature	-30°C to 70°C
Input Power	20 W Maximum
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz autosensing
Supported Hardware - Computer	PS/2, Sun and USB
Supported Hardware - Video Modes	VGA, SVGA (XGA, XGA-II with adapter), Maximum Local Port: 1600 x 1280, Maximum Remote Port using a DSRIQ module: 1280 x 1024 @ 75 Hz
Supported Hardware - Peripherals	PS/2 keyboard, PS/2 mouse, IntelliMouse

#### STANDARDS

Approved Agency	UL, FCC, cUL, ICES-003, CE, GS, VCCI, MIC, C-Tick, GOST
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## DSR1024 KVM Switch

Designed for BIOS-level remote management of devices controlled by a single computer, such as ATM machines.



**The Avocent DSR1024 KVM over IP switch is specifically designed for BIOS-level management of branch office devices controlled by a single computer, such as ATM machines.**

Remote access via the single-port DSR1024 switch can help eliminate on-site maintenance costs and service calls. This switch includes one target device interface, one digital channel and a local port. Attached device can be cycled on/off with the dedicated power control port.

External modem support is available if your network is down. Controlled by the Avocent DSView 3 management software, you have convenient and secure browser-based access to any device network.

### ON BOARD WEB SERVER

The DSR1024 KVM switch includes an on board web server for direct access to the appliances so they can be used without DSView 3 software. More advanced facilities such as hub and spoke, notifications, scheduling, Virtual Media and centralised authentication require DSView 3 management software to be installed.



DSR1024 Switch

### DSR1024 SWITCH FEATURES

- **Single User Digital KVM over IP Switch**
- **Compact**, KVM over IP appliance integrates KVM, an external modem and power control in one solution
- **Offers IT administrators the ability** to dial into a remotely located server or serial device
- **Remotely reboot the server** to the BIOS level or even power cycle remote devices all from a single DSView 3 software interface
- **Uses the same management interface** for the data centre and the branch offices
- **Designed for multi-platform servers**, including PS/2, Sun and USB
- **Includes on board Web server**
- **DSView 3 software advanced security** includes audit logs and the ability to assign individual user rights

## DSR1024 KVM Switch

### DSR1024 KVM Switch Ordering Information

Order Details	Part Number
1-port Digital KVM switch w/PS2	DSR1024PS2-XXX*
1-port Digital KVM switch w/USB	DSR1024USB-XXX*
Server interface module for VGA PS/2 keyboard PS/2 mouse	DSRIQ-PS/2
Server interface module for VGA PS/2 keyboard PS/2 mouse (extended version)	DSRIQ-PS2L
Server interface module for serial-based devices	DSRIQ-SRL
Server interface module for VGA, USB keyboard/mouse	DSRIQ-USB
Server interface module for VGA, Sun keyboard/mouse	DSRIQ-VSN
Power Supply	UPD-xx*

\*Please consult Avocent price list for correct regional ordering code

### DSR1024 KVM Switch Specifications

MECHANICAL	Height	Width	Depth	Weight
	2.8 cm	20.5 cm	16.0 cm	0.5Kg

### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 40°C
Storage Temperature	-30°C to 70°C
Input Power	20 W Maximum
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz autosensing
Supported Hardware - Computer	PS/2, Sun and USB
Supported Hardware - Video Modes	VGA, SVGA (XGA, XGA-II with adapter), Maximum Local Port: 1600 x 1280, Maximum Remote Port using a DSRIQ module: 1280 x 1024 @ 75 Hz
Supported Hardware - Peripherals	PS/2 keyboard, PS/2 mouse, IntelliMouse

### STANDARDS

Approved Agency	UL, FCC, cUL, ICES-003, CE, GS, VCCI, MIC, C-Tick, GOST
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## DSR1030 & DSR2030 KVM Switches

KVM over IP switches with BIOS-level control of all connected servers and serial-based devices in your data centre - now with Virtual Media.



**The DSR1030 and DSR2030 KVM switches give administrators Virtual Media capability through DSView 3 software as well as all the features of the DSR1020 and DSR2020 KVM switches.**

For easy access to network devices, the switches include USB ports allowing you to remotely power cycle connected devices and external modem support - even when the network is down.

DSView 3 management software, with hub and spoke architecture, provides failover authentication. Users authenticate to a central management server (the hub) or one of 15 mirror servers (the spokes). SNMP and IPMI support are also provided.



DSR2030 Switch

### DSR1031 SWITCH FEATURES

- **Virtual Media capability** allows remote loading of software for file transfers, application and OS patches and diagnostic testing
- **Compact, KVM over IP appliance** integrates KVM, an external modem and power control in one solution
- **Includes five USB 2.0 local ports**
- **Local and remote shared access** for at the rack and remote data centre management
- **Required login** at the local port for increased security
- **Provides access** to an unlimited number of servers or serial devices, no matter their location
- **Includes 16 configurable ports** for maximum flexibility when connecting to servers or serial devices
- **Offers IT administrators** the ability to connect into a remotely located server or serial device
- **DSView 3 management software**, with hub and spoke architecture, provides failover authentication
- **Remotely reboot the server** to the BIOS level or even power cycle remote devices - all from a single DSView 3 software interface
- **Uses the same management interface** for the data centre and the branch offices
- **Designed for multi-platform servers**, including PS/2, Sun and USB
- **DSView 3 advanced security includes** audit logs and the ability to assign individual user rights

### What is Virtual Media?

Virtual Media eliminates the need to physically load a CD directly to the server to perform data-related tasks on-site. You can remotely load software by mapping a local removable media or mass storage device to a remote server. This allows for remote file transfers, application and OS patches, and diagnostic testing.

## DSR1030 and DSR2030 KVM Switches

### DSR1030 and DSR2030 KVM Switches Ordering Information

Order Details	Part Number
16-port Digital-Analogue KVM Over IP Switch, 1 digital user	DSR1030-XXX*
16-port Digital-Analogue KVM Over IP Switch, 2 digital users	DSR2030-XXX*
Server interface module for VGA PS/2 keyboard PS/2 mouse	DSRIQ-PS2
Server interface module for VGA PS/2 keyboard PS/2 mouse (extended version)	DSRIQ-PS2L
Server interface module for serial-based devices (requires UPD-EM power supply)	DSRIQ-SRL
Server interface module for VGA, USB keyboard/mouse	DSRIQ-USB
Server interface module for VGA or 13W3, Sun keyboard/mouse	DSRIQ-VSN
Server interface module for USB 2.0 w/14 inch cable (required for Virtual Media)	DSRIQ-USB2
Server interface module for USB 2.0 w/20 inch cable (required for Virtual Media)	DSRIQ-USB2L
Power Supply	UPD-xx*

\*Please consult Avocent price list for correct regional ordering code

### DSR1030 and DSR2030 KVM Switches Specifications

MECHANICAL	Height	Width	Depth	Weight
	4.4 cm	43.2 cm	28 cm	3.3Kg (without cables)

#### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 70°C
Input Power	40 W Maximum
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz autosensing
Supported Hardware - Computer	PS/2, Sun and USB
Supported Hardware - Video Modes	VGA, SVGA (XGA, XGA-II with adapter), Maximum Local Port: 1600 x 1280, Maximum Remote Port using a DSRIQ module: 1280 x 1024 @ 75 Hz
Supported Hardware - Peripherals	USB keyboard and mouse, PS/2 keyboard, PS/2 mouse, IntelliMouse

#### STANDARDS

Approved Agency	UL, FCC, cUL, ICES-003, CE, GS, VCCI, MIC, C-Tick, GOST
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## DSR1031 KVM Switch

KVM over IP switch with BIOS-level control of all connected servers and serial-based devices in your branch offices and data centre - now with Virtual Media



**The Avocent DSR1031 KVM switch is specifically designed for IT administrators who need to easily troubleshoot, reboot or even power cycle servers or serial devices in branch offices, avoiding the need for costly on-site service calls.**

The DSR1031 switch gives administrators Virtual Media capability through DSView 3 software. For easy access to network devices, the switches include USB ports allowing you to remotely power cycle connected devices and external modem support - even when the network is down.

DSView 3 management software, with hub and spoke architecture, provides failover authentication.

Users authenticate to a central management server (the hub) or one of 15 mirror servers (the spokes). SNMP and IPMI support are also provided.

### What is Virtual Media?

Virtual Media eliminates the need to physically load a CD directly to the server to perform data-related tasks on-site. You can remotely load software by mapping a local removable media or mass storage device to a remote server. This allows for remote file transfers, application and OS patches, and diagnostic testing.



DSR1031 Switch

### DSR1031 SWITCH FEATURES

- **Virtual Media capability** allows remote loading of software for file transfers, application and OS patches and diagnostic testing
- **Compact, KVM over IP appliance** integrates KVM, an external modem and power control in one solution
- **Includes five USB 2.0 local ports** and two SPC power management ports
- **Local and remote shared access** for at the rack and remote data centre management
- **Includes eight configurable ports** for maximum flexibility when connecting to servers or serial devices
- **Offers IT administrators** the ability to connect into a remotely located server or serial device
- **Remotely reboot the server** to the BIOS level or even power cycle remote devices - all from a single DSView 3 software interface
- **Uses the same management interface** for the data centre and the branch offices
- **Designed for multi-platform servers**, including PS/2, Sun and USB
- **DSView 3 advanced security includes** audit logs and the ability to assign individual user rights

## DSR1031 KVM Switch

### DSR1031 KVM Switch Ordering Information

Order Details	Part Number
8-port Digital-Analogue KVM Over IP Switch, 1 digital user	DSR1031-XXX*
Server interface module for VGA PS/2 keyboard PS/2 mouse	DSRIQ-PS2
Server interface module for VGA PS/2 keyboard PS/2 mouse (extended version)	DSRIQ-PS2L
Server interface module for serial-based devices (requires UPD-EM power supply)	DSRIQ-SRL
Server interface module for VGA, USB keyboard/mouse	DSRIQ-USB
Server interface module for VGA or 13W3, Sun keyboard/mouse	DSRIQ-VSN
Server interface module for USB 2.0 w/14 inch cable (required for Virtual Media)	DSRIQ-USB2
Server interface module for USB 2.0 w/20 inch cable (required for Virtual Media)	DSRIQ-USB2L
Power Supply	UPD-xx*

\*Please consult Avocent price list for correct regional ordering code

### DSR1031 KVM Switch Specifications

MECHANICAL	Height	Width	Depth	Weight
	4.5 cm	43.2 cm	28 cm	3.3Kg (without cables)

#### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 70°C
Input Power	40 W Maximum
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz autosensing
Supported Hardware - Computer	PS/2, Sun and USB
Supported Hardware - Video Modes	VGA, SVGA (XGA, XGA-II with adapter), Maximum Local Port: 1600 x 1280, Maximum Remote Port using a DSRIQ module: 1280 x 1024 @ 75 Hz
Supported Hardware - Peripherals	USB keyboard and mouse, PS/2 keyboard, PS/2 mouse, IntelliMouse

#### STANDARDS

Approved Agency	UL, FCC, cUL, ICES-003, CE, GS, VCCI, MIC, C-Tick, GOST
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## DSR2035 & DSR8035 KVM Switches

KVM over IP switches with BIOS-level control of all connected servers and serial-based devices in your data centre - now with Virtual Media.



**The 32-port two digital path DSR 2035 KVM over IP switch and the 32-port eight digital path DSR®8035 features on-board Web browser support allowing direct access to target devices without additional software.**

This is a benefit for companies who want an easily scalable system. DSView 3 management software can be added later as the system grows. Adding DSView 3 software that features virtual media allows administrators to remotely load software by mapping a local removable media or mass storage device to a remote server. This allows file transfers, application and OS patches, and diagnostic testing from a CD.

DSView 3 management software, with hub and spoke architecture, provides failover authentication. Users authenticate to a central management server (the hub) or one of 15 mirror servers (the spokes). SNMP and IPMI support are also provided.

### ON BOARD WEB SERVER

On-board Web interface support allows direct access to target devices without additional software, a benefit for companies who want a scalable system that can easily grow with them. DSView 3 management software can be added later as the system grows.



DSR2035 Switch

### DSR2035 AND DSR8035 SWITCH FEATURES

- **Compact, KVM over IP** appliance integrates KVM, an external modem and power control in one solution
- **DSR 8035 KVM switch** provides eight simultaneous digital paths for remote access and BIOS-level control of all connected servers and serial-based devices in your data centre
- **Includes dual network interfaces** for failover redundancy
- **Local and remote access** for at the rack and remote data centre management
- **Required login** at the local port for increased security
- **Provides access to an unlimited** number of servers or serial devices, no matter their location
- **Includes 32 configurable ports** for maximum flexibility when connecting to servers or serial devices
- **Offers IT administrators** the ability to connect into a remotely located server or serial device
- **Designed for multi-platform servers**, including PS/2, Sun and USB

## DSR2035 and DSR8035 KVM Switches

### DSR2035 and DSR8035 KVM Switches Ordering Information

Order Details		Part Number
<b>DSR2035</b>	2 x 32 Port Digital Switch with virtual media	DSR2035-XXX*
<b>DSR8035</b>	8 x 32 Port Digital Switch with virtual media	DSR8035-XXX*
Power Supply		UPD-xx*
Modules		Part Number
Server interface module for VGA PS/2 keyboard PS/2 mouse		DSRIQ-PS/2
Server interface module for VGA PS/2 keyboard PS/2 mouse (extended version)		DSRIQ-PS2L
Server interface module for serial-based devices		DSRIQ-SRL
Server interface module for VGA, USB keyboard/mouse		DSRIQ-USB
Server interface module for USB 2.0 with 36cm cable (required for virtual media)		DSRIQ-USB2
Server interface module for USB 2.0 with 50cm cable (required for virtual media)		DSRIQ-USB2L
Server interface module for VGA, Sun keyboard/mouse		DSRIQ-VSN

\*Please consult Avocent price list for correct regional ordering code

### DSR2035 and DSR8035 KVM Switches Specifications

MECHANICAL	Height	Width	Depth	Weight
	4.37 cm	43.18 cm	36.20 cm	4.5Kg (without cables)
ENVIRONMENTAL/POWER/HARDWARE				
Operating Temperature	0°C to 40°C			
Storage Temperature	-20°C to 70°C			
Input Power	60 W Maximum			
Operating Voltage	100 - 240 VAC			
Power Frequency	50 - 60Hz autosensing			
Supported Hardware - Computer	PS/2, Sun and USB			
Supported Hardware - Video Modes	VGA, SVGA (XGA, XGA-II with adapter), Maximum Local Port: 1600 x 1280, Maximum Remote Port using a DSRIQ module: 1280 x 1024 @ 75 Hz			
Supported Hardware - Peripherals	USB keyboard and mouse, PS/2 keyboard, PS/2 mouse, IntelliMouse			
STANDARDS				
Approved Agency	UL, FCC, cUL, ICES-003, CE, GS, VCCI, MIC, C-Tick, GOST			

## DSR4020 & DSR8020 KVM Switches

KVM over IP switches with BIOS-level control of all connected servers and serial-based devices in your data centre - now with Virtual Media.



**The 16-port DSR4020 and DSR8020 KVM switches provide local and remote access for at the rack and remote data centre management.**

The switch includes four simultaneous digital paths for access to remote devices, the ability to remotely power cycle connected devices, and external modem support when the network is down.

Managed with the Avocent DSView 3 software, the DSR4020 and DSR8020 switches provide browser-based access to any connected device in your data centre.



DSR4020 Switch

### DSR4020 AND DSR8020 SWITCH FEATURES

- **Includes a USB local port** for keyboard and mouse connections
- **Local and remote access** at the rack and remote data centre management
- **Required login** at the local port for increased security
- **Provides access** to an unlimited number of servers or serial devices, no matter their location
- **DSView 3 management software**, with hub and spoke architecture, provides failover authentication
- **Includes 16 configurable ports** for maximum flexibility when connecting to servers or serial devices
- **Offers IT administrators** the ability to connect into a remotely located server or serial device
- **Remotely reboot the server** to the BIOS level or even power cycle remote devices - all from a single DSView 3 software interface
- **Uses the same management interface** for the data centre and the branch offices
- **Designed for multi-platform servers**, including PS/2, Sun and USB
- **DSView 3 software advanced security** includes audit logs and the ability to assign individual user rights
- **Includes an on board web server**

### ON BOARD WEB SERVER

The DSR4020 and DSR8020 KVM switches include an on board web server for direct access to the appliances so they can be used without DSView 3 software. More advanced facilities such as hub and spoke, notifications, scheduling, Virtual Media and centralised authentication require DSView 3 management software to be installed.

## DSR4020 and DSR8020 KVM Switches

### DSR4020 and DSR8020 KVM Switches Ordering Information

Order Details	Part Number
16-port Digital-Analogue KVM Over IP switch, 4 digital users	DSR4020-XXX*
16-port Digital-Analogue KVM Over IP switch, 8 digital users	DSR8020-XXX*
Server interface module for VGA PS/2 keyboard PS/2 mouse	DSRIQ-PS2
Server interface module for VGA PS/2 keyboard PS/2 mouse (extended version)	DSRIQ-PS2L
Server interface module for serial-based devices (requires UPD-xx* power supply)	DSRIQ-SRL
Server interface module for VGA, USB keyboard/mouse	DSRIQ-USB
Server interface module for VGA or 13W3, Sun keyboard/mouse	DSRIQ-VSN
Power Supply	UPD-xx*

\*Please consult Avocet price list for correct regional ordering code

### DSR4020 and DSR8020 KVM Switches Specifications

MECHANICAL	Height	Width	Depth	Weight
	4.4 cm	43.2 cm	28 cm	3.3Kg (without cables)

#### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 70°C
Input Power	40 W Maximum
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz autosensing
Supported Hardware - Computer	PS/2, Sun and USB
Supported Hardware - Video Modes	VGA, SVGA (XGA, XGA-II with adapter), Maximum Local Port: 1600 x 1280, Maximum Remote Port using a DSRIQ module: 1280 x 1024 @ 75 Hz
Supported Hardware - Peripherals	USB keyboard and mouse, PS/2 keyboard, PS/2 mouse, IntelliMouse

#### STANDARDS

Approved Agency	UL, FCC, cJUL, ICES-003, CE, GS, VCCI, MIC, C-Tick, GOST
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## DSR4030 & DSR8030 KVM Switches

KVM over IP switches with BIOS-level control of all connected servers and serial-based devices in your data centre - now with Virtual Media.



**The DSR4030 and DSR8030 KVM switches give administrators Virtual Media capability through DSView 3 software as well as all the features of the DSR4020 and DSR8020 switches.**

For easy access to network devices, the switches include USB ports allowing you to remotely power cycle connected devices and external modem support - even when the network is down.

DSView 3 management software, with hub and spoke architecture, provides failover authentication. Users authenticate to a central management server (the hub) or one of 15 mirror servers (the spokes). SNMP and IPMI support are also provided.

### What is Virtual Media?

Virtual Media eliminates the need to physically load a CD directly to the server to perform data-related tasks on-site. You can remotely load software by mapping a local removable media or mass storage device to a remote server. This allows for remote file transfers, application and OS patches, and diagnostic testing.



DSR8030 Switch

### DSR4030 AND DSR8030 SWITCH FEATURES

- **Virtual Media capability** allows remote loading of software for file transfers, application and OS patches and diagnostic testing
- **Compact, KVM over IP** appliance integrates KVM, an external modem and power control in one solution
- **Includes five USB 2.0 local ports**
- **Local and remote access** for at the rack and remote data centre management
- **Required login** at the local port for increased security
- **Provides access to an unlimited** number of servers or serial devices, no matter their location
- **Includes 16 configurable ports** for maximum flexibility when connecting to servers or serial devices
- **Offers IT administrators** the ability to connect into a remotely located server or serial device
- **DSView 3 management software**, with hub and spoke architecture, provides failover authentication
- **Remotely reboot the server** to the BIOS level or even power cycle remote devices - all from a single DSView 3 software interface
- **Uses the same management interface** for the data centre and the branch offices
- **Designed for multi-platform servers**, including PS/2, Sun and USB
- **DSView advanced security** includes audit logs and the ability to assign individual user rights

## DSR4030 and DSR8030 KVM Switches

### DSR4030 and DSR8030 KVM Switches Ordering Information

Order Details	Part Number
16-port Digital-Analogue KVM Over IP switch, 4 digital users	DSR4030-XXX*
16-port Digital-Analogue KVM Over IP switch, 8 digital users	DSR8030-XXX*
Server interface module for VGA PS/2 keyboard PS/2 mouse	DSRIQ-PS2
Server interface module for VGA PS/2 keyboard PS/2 mouse (extended version)	DSRIQ-PS2L
Server interface module for serial-based devices (requires UPD-xx* power supply)	DSRIQ-SRL
Server interface module for VGA, USB keyboard/mouse	DSRIQ-USB
Server interface module for VGA or 13W3, Sun keyboard/mouse	DSRIQ-VSN
Server interface module for USB 2.0 w/14 in cable (required for Virtual Media)	DSRIQ-USB2
Server interface module for USB 2.0 w/20 in cable (required for Virtual Media)	DSRIQ-USB2L
Power Supply	UPD-xx*

\*Please consult Avocent price list for correct regional ordering code

### DSR4030 and DSR8030 KVM Switches Specifications

MECHANICAL	Height	Width	Depth	Weight
	4.4 cm	43.2 cm	28 cm	3.3Kg (without cables)

#### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 70°C
Input Power	40 W Maximum
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz autosensing
Supported Hardware - Computer	PS/2, Sun and USB
Supported Hardware - Video Modes	VGA, SVGA (XGA, XGA-II with adapter), Maximum Local Port: 1600 x 1280, Maximum Remote Port using a DSRIQ module: 1280 x 1024 @ 75 Hz
Supported Hardware - Peripherals	USB keyboard and mouse, PS/2 keyboard, PS/2 mouse, IntelliMouse

#### STANDARDS

Approved Agency	UL, FCC, cUL, ICES-003, CE, GS, VCCI, MIC, C-Tick, GOST
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# DSView 3 Management Software

The secure solution for managing every device in your data centre from a single interface



## Secure, Centralized Access and Control

Avocent's DSView® 3 management software provides data centers with a secure, centralized management solution for all of your networked hardware and software—physical and virtual. DSView 3 software allows administrators to access, diagnose, and modify any network asset from any point on the globe, regardless of the health or status of the OS or the network connection to those devices. DSView 3 software makes your data center and remote offices more manageable, accessible, extensible, and secure.

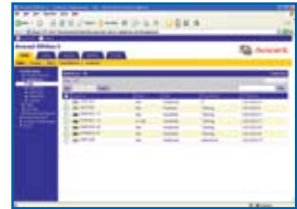
DSView 3 software provides a single, secure, browser-based interface to manage your entire data center environment, including the following:

- Blade servers and enclosures
- VMware Virtual Infrastructure, including Virtual Centers, ESX Servers and Virtual Machines
- Embedded service processors
- Rack-mounted servers
- Cyclades® ACS advanced console servers
- DSR® KVM over IP switches
- Cyclades PM Intelligent Power Distribution Units (IPDUs)
- MergePoint® Service Processor Management Devices

DSView 3 software also provides fully-permissioned custom views for each user, graphical report building and task automation tools, and a holistic view of your network assets no other system can equal.

DSView 3 software's redundant "hub and spoke" architecture allows administrators to access every asset in your network from any networked PC or mobile device. DSView 3 software's out-of-band (OOB) features allow admins to diagnose and repair problems even when gateways, routers, or other IP connectivity is down.

DSView 3  
Management  
Software



## DSView 3 Management Software Quick Facts

- **Access and control** your entire IT infrastructure – physical and virtual – from a single screen
- **Click and connect** centralized management for blades, VMware virtual infrastructure, DSR KVM over IP, MergePoint service processor managers, Cyclades ACS advanced console servers, Cyclades PM intelligent power distribution units
- **Hub and spoke architecture** for redundancy and real-time updates
- **Supports embedded server management technologies** such as IPMI
- **Virtual media support** for remote diagnostic testing and software loading
- **User authentication** through internal or external services such as LDAP, Active Directory, NT Domain, TACACS+, RADIUS and RSA SecurID
- **Selectable encryption** modes (AES, DES, 3DES, 128bit SSL) to support your security policy
- **Access to remote sites** when the network link is down using modem or high-speed ISDN connections
- **Remote management** of Windows servers from hand-held devices with DSView 3 mobile software

## DSView 3 Management Software

### DSView 3 Management Software Ordering Information

Order Details	Part Number
DSView 3 Software, Portfolio A with 1 Hub/5 Users	DSV3-SWA
DSView 3 Software, Portfolio B with 1 Hub/1 Spoke/5 Users	DSV3-SW
DSView 3 software - 1 User add-on license	DSV3-1
DSView 3 software - 5 User add-on license	DSV3-5
DSView 3 software - 10 User add-on license	DSV3-10
DSView 3 software - 25 User add-on license	DSV3-25
DSView 3 software - 50 User add-on license	DSV3-50
DSView 3 software - 1 Spoke Add-on License	DSV3-SPOKE
Server interface module for USB 2.0 w/20 in cable (required for Virtual Media)	DSRIQ-USB2L
Demo License Key for DSView 3 software	DSV3-DEMO90
DSView 3 - Power management option license 1 device	DSV3-PWR1
DSView 3 - Power management option license 5 device	DSV3-PWR5
DSView 3 - Power management option license 10 device	DSV3-PWR10
DSView 3 - Power management option license 25 device	DSV3-PWR25
DSV3 Data Logger License fee - 8 concurrent user connections	DSV3-DLS8
DSV3 Data Logger License fee - 32 concurrent user connections	DSV3-DLS32
DSV3 Data Logger License fee - 64 concurrent user connections	DSV3-DLS64
DSV3 Data Logger License fee - 128 concurrent user connections	DSV3-DLS128
DSV3 Data Logger License fee - 256 concurrent user connections	DSV3-DLS256
DSView 3 Mobility Software	DSV3-MOB
DSView 3 Connector for HP OpenView Software	DSV3-HP
DSView 3 Software Web Services API Kit 5 hours tech support	DSV3-WSK
Virtual Machine 5 license package	DSV3-VM5
Virtual Machine 25 license package	DSV3-VM25
Virtual Machine 100 license package	DSV3-VM100
Virtual Machine 500 license package	DSV3-VM500

## DSView 3 Management Software

### DSView 3 Management Software Specifications

#### DSView 3 software (hub/spoke) minimum requirements

For supported Windows and Linux systems: 2 GHz Pentium or equivalent processor

For supported Solaris systems: 1 GHz UltraSpare III processor

1 GB RAM – additional memory may be needed depending on the number of plug-ins installed and appliances supported  
100BT NIC (1 GB LAN recommended)

10 GB of free disk space – additional disk space may be required for data logging and plug-ins

One of the following operating systems:

- Microsoft Windows 2000 Server or Windows 2000 Advanced Server with the latest service pack
- Microsoft Windows Server 2003 Standard, Enterprise and Web Edition
- Windows XP Professional with Service Pack 2 or later
- Windows 2003 Server Standard, Enterprise or Web Edition
- Windows Vista
- Red Hat Enterprise Linux, version 3 or 4 (AS, ES and WS products)
- Sun Solaris SPARC 9 and 10
- Novell SUSE Linux (x86) Enterprise Server 8 and 9

#### Browser support

Microsoft Internet Explorer version 6.0 SP1 and later (Windows operating systems only)

Mozilla version 1.7.3 and later

Mozilla Firefox® version 1.0 and later (Windows and Mac®)

Netscape® version 7.2. and later

#### VMware Requirements

VMware VirtualCenter version 2.01 or later

VMware ESX server version 3.01 or later

#### Blades Supported

DS1800 digital switches

DSR switch models: 800, 1010, 1020\*, 1021\*, 1022\*, 1024\*, 1030\*, 1031\*, 1161, 2010, 2020\*, 2030\*, 2035\*, 2161, 4010, 4020\*, 4030\*, 4160, 8020\*, 8030\*, 8035\*

\*These models contain a modem port for use with the DSR Remote Operations software.

Cyclades KVM/net KVM over IP switch

Cyclades KVM/netPlus KVM over IP switch

#### Service processor managers

MergePoint 5200 series of service processor managers

## DSView 3 Software Specifications

### Avocent managed appliance support

#### Digital KVM switches

DS1800 digital switches

DSR switch models: 800, 1010, 1020,\* 1021,\* 1022,\* 1024,\* 1030,\* 1031,\* 1161, 2010, 2020,\* 2030,\* 2035,\* 2161, 4010, 4020,\* 4030,\* 4160, 8020,\* 8030,\* 8035\*

*\*These models contain a modem port for use with the DSR switch remote operations software.*

Cyclades KVM/net KVM over IP switch

Cyclades KVM/netPlus KVM over IP switch

#### Console management appliances

Cyclades ACS advanced console server

All CCM console management appliances

CPS810 and 1610 serial over IP network appliances

#### Power devices

Power devices are supported on Cyclades ACS, CPS and CCM appliances and on all DSR switches that contain one or more SPC ports.

- Avocent SPC power control devices
- Server Technologies Sentry Switched CDU CW-8H1, CW-8H2, CW-16V1, CW-16V2, CW-24V2, CW-24V3, CW-32VD1 AND CW-32VD2 (supported models may change; contact Avocent Technical Support for current information)\*
- Cyclades PM IPDUs: PM8i-10A, PM10-15A, PM10-20A, PM10-L20A, PM10-L30A, PM10i-10A, PM10i-15A, PM10i-16A, PM10i-20A, PM10i-L30A, PM10i-32A, PM10i-32Au, PM20-20A, PM20-L20A, PM20-L30A, PM20i-16A, PM20i-20A, PM20i-30A, PM20i-30Au, PM20i-L30A, PM20i-32A, PM20i-32Au

*\*CPS appliances do not support.*

#### Service processor managers

MergePoint 5200 series of service processor managers

#### Generic appliances

Data center devices such as UPS, HVAC and environmental monitoring devices may be managed with DSView 3 software by launching a standard Web browser to the device URL or opening a Telnet session.

#### Supported modems

The following modems and serial PCI cards are supported by the DSView 3 software, provided the modems are supported on the DSView 3 server operating system.

- Perle PCI-RAS 4 and PCI-RAS 8, which are backwards compatible with Perle V90 Modem
- Equinox SST MM 4p Modem
- Equinox SST 4p Serial
- Eicon DS series ISDN BRI-2M
- Eicon DS series ISDN 4BRI-8M

DSView 3 software also supports the USR3453B - Courier 56k external modem.

*NOTE: The modems listed are not supported on Sun Solaris SPARC operating systems.*

# MergePoint™ 5200

Service Processor Manager



## Secure, Remote Server Management Using Service Processors

The MergePoint™ 5200 management gateway appliance enables IT professionals to perform secure, remote server management from anywhere in the world using embedded server management technologies (also known as service processors); specifically, Intelligent Platform Management Interface (IPMI), Dell Remote Access Cards (DRAC) and HP Integrated Lights Out (iLO). The MergePoint 5200 appliance provides secure Serial over LAN (SoL) console access, power control and server hardware monitoring, along with IPMI provisioning and service processor auto discovery. When used in conjunction with DSView 3 management software, the MergePoint 5200 appliance provides essential server coverage, which complements the overall out-of-band management infrastructure.



MergePoint 5200 Service Processor Manager

The MergePoint 5200 appliance offers both a feature-rich Web user interface as well as a command line interface that leverages the Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP), a standards-based user and scripting interface defined by the Distributed Management Task Force (DMTF). This provides a single command line interface to manage servers from multiple manufacturers, simplifying management, streamlining interoperability while providing scripting and automation capabilities.

The MergePoint 5200 appliance also eases the deployment and management of embedded server management technologies. With IPMI provisioning capabilities and an auto discovery mechanism for server management technologies within the network, the MergePoint 5200 appliance is ideal for enterprise data centres as well as for high performance computing (HPC) and other clustering environments.

## FEATURES

- **Logical consolidation** of service processors (IPMI, DRAC and iLO)
- **Out-of-band** cluster management
- **IPMI** provisioning and management

## BENEFITS

- **Single console** for multiple service processor types
- **Server access** for deployment, management and troubleshooting
- **Control** multiple servers simultaneously
- **Simplified management** via standards-based interfaces (SMASH CLP)
- **IPMI improvising**
- **Logging and auditing** of service processor

Ordering Information		
Product Description	Part Number	Price
<b>MergePoint 5200</b> IPMI/DRAC/iLO appliance, includes 64 target licenses	MGP5200-XXX*	Call for Pricing
<b>MergePoint 5200</b> additional 64 target licenses	MGPUG64-XXX*	
<b>MergePoint 5200</b> additional 128 target licenses	MGPUG128-XXX*	

\*Please consult Avocent price list for correct regional ordering code.

Specifications	
MECHANICAL	
<b>Height</b>	4.3 cm
<b>Width</b>	42.7 cm
<b>Depth</b>	35.6 cm
<b>Weight</b>	5.9 kg
<b>Units</b>	
ENVIRONMENTAL/POWER/HARDWARE	
Operating Temperature	0°C to 35°C
Storage Temperature	-35°C to 70°C
Humidity	10% to 90% noncondensing
Power	260 W universal
CPU	Celeron 2.95 GHz
Memory	512 MB RAM
Storage	80 GB SATA hard drive, 7200 rpm
Interfaces	2x Gigabit Ethernet ports
STANDARDS	
Approved Agency	FCC Class B EN 60950/IEC 60950 UL Listed (USA) CUL Listed (Canada) TUV Certified (Germany) CE Marking (Europe)

# MergePoint™ 5224/5240

Service Processor Managers



## Innovative Solution for Service Processor Management

The MergePoint 5224/5240 service processor (SP) managers simplify management of servers with SP technologies by consolidating IP connections, user access and server health information. With multiple Ethernet ports, the MergePoint 5224/5240 appliances connect point-to-point with Ethernet-based service processors, such as HP® Integrated Lights-Out (iLO), Intelligent Platform Management Interface (IPMI, versions 1.5 and 2.0), Dell® Remote Access Card (DRAC), IBM® Remote Supervisor Adapter II (RSA II) and Sun® Advanced Lights Out Management (ALOM).

By consolidating SP Ethernet ports, the MergePoint 5224/5240 SP managers require only one external IP address and Ethernet switch port for all connected devices, significantly reducing deployment costs associated with SPs. By isolating and protecting the connected SPs from the external production network, the MergePoint 5224/5240 appliances provide secure and efficient rack-level management with seamless integration into the management infrastructure.

As part of the MergePoint 5200 series of SP managers, the MergePoint 5224/5240 appliances provide secure Serial over LAN (SoL), power control, hardware monitoring and the new DirectCommand feature, which enables transparent, secure access to the SP's native interface. When used in conjunction with DSView 3 management software, the MergePoint 5224/5240 appliances provide essential server coverage, which complements the overall management infrastructure.



MergePoint 5240 Service Processor Manager

## FEATURES

- **Manage** HP iLO, IBM RSA, Dell DRAC, IPMI and others from a single user interface
- **Centralise authentication, logging, health monitoring and control** of servers
- **Provide the security needed** to effectively manage service processors remotely

## BENEFITS

- **Reduce the cost of deploying, monitoring and troubleshooting** servers by reducing the number of IP addresses and Ethernet switch ports required for service processors
- **Decrease the time to access, monitor and control** servers by using a single login and user interface
- **Eliminate security concerns** associated with remote management of service processors
- **Restrict user access** to specific service processor features: power, sensors, console, Web

Ordering Information	
Product Description	Part Number
<b>MergePoint 5224 Service Processor Manager</b> Single Power Supply AC	MGP5224SAC-XXX*
<b>MergePoint 5240 Service Processor Manager</b> Single Power Supply AC	MGP5240SAC-XXX*
<b>MergePoint 5224 Service Processor Manager</b> Dual Power Supply AC	MGP5224DAC-XXX*
<b>MergePoint 5240 Service Processor Manager</b> Dual Power Supply AC	MGP5240DAC-XXX*
<b>MergePoint 5224 Service Processor Manager</b> Dual Power Supply DC	MGP5224DAC
<b>MergePoint 5240 Service Processor Manager</b> Dual Power Supply DC	MGP5240DAC
<b>MergePoint 5224/5240 Service Processor Managers</b> 20-target add-on license	MGPUG-20

\*Please consult Avocent price list for correct regional ordering code.

Specifications				
MECHANICAL	Height	Width	Depth	Weight
<b>Units</b>	4.45 cm	43.18 cm	30 cm	4 kg
ENVIRONMENTAL/POWER/HARDWARE				
Operating Temperature	10°C to 50°C			
Storage Temperature	-40°C to 85°C			
Humidity	5% to 90% noncondensing			
Power	Universal AC, single or dual 100–240 VAC, 50/60 Hz, 1.4 A max. dual DC, 36–75 VDC, max. input current 5 A			
CPU	Free scale Power QUICC III @ 633 MHz			
Memory	256 MB DDRAM/128 MB compact flash			
Dual 32/16 bit PC Card Slots Support	Secondary Ethernet , wireless Ethernet, dial-up modem, GSM, fiber optic, CDMA, GPRS, ISDN, data storage			
Interfaces	40/24 x 10/100BT RJ-45 sever Ethernet interfaces on RJ-45 1 RS-232 console on RJ-45 1 RS-232 serial port on RJ-45 for power manager or external modem 1 10/100/1000BT primary user Ethernet on RJ-45 1 10/100/1000BT secondary user Ethernet on RJ-45 (with failover support for primary interface) 1 10/100/1000BT primary user Ethernet on RJ-45 1 10/100BT Ethernet on RJ-45 for user connections or failover from primary			
STANDARDS				
Approved Agency	FCC Part 15 Class A CE: EN55022 Class A and EN55024 Class A CSA, C-Tick, ICES-T03			

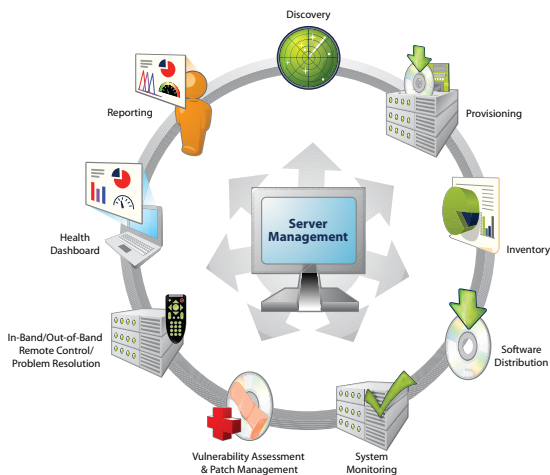
# LANDesk Server Manager



LANDesk Server Manager by Avocent provides a single console for multi-vendor environments to monitor and manage server availability and reduce operational costs. LANDesk Server Manager allows server administrators and managers to standardise the way that servers are deployed and maintained in their data centres, remote branch offices and disaster recovery sites.

In addition to higher levels of availability, LANDesk Server Manager helps reduce operating costs through automation of routine tasks such as provisioning and patch management. LANDesk Server Manager also enables IT administrators to gather detailed inventory providing a foundation for solid IT management and business decision planning.

LANDesk Server Manager delivers advanced provisioning and patch management tools enabling the administrator to define and design a server configuration. Once that server profile is defined, it can be replicated many times even over different hardware platforms to ensure any heterogeneous server environment can be managed in a homogenous way. This level of standardisation and proactive control over IT resources, from bare metal provisioning through to the end of a server's useful life, brings order to an otherwise chaotic and ever-changing environment while increasing efficiency and uptime.



## FEATURES AND BENEFITS

- Easy-to-Replicate Server Provisioning
- Efficient Patch Management Server
- Monitoring for Improved System Health
- Rapid Problem Resolution
- Single console to manage all servers from multiple vendors
- Increased server availability through standardisation and control
- Reduced operating cost through user defined automation of routine tasks and remote operations
- Proactive monitoring and management leading to greater service availability
- Management optimisation through standardisation
- Complete, remote server operations enable lights out data centre

## LANDesk Server Manager Ordering Information

Product		Part Number
<b>Server Manager Base</b>	100 node licenses	LDSM-100NODE
<b>Server Manager</b>	1 node add on license	LDSM-1NODE
<b>Server Manager Patch</b>	Subscription renewal, 1 required per node. First year is included.	LDSM-1YRP
<b>Server Manager</b>	Media only	LDSM-MEDIA

## LANDesk Server Manager Specifications

### PLATFORM SUPPORT

LANDesk Server Manager 8.7	SUSE® Linux Enterprise 9.1 – 9.3 (WS)
Microsoft Windows® 2000 Server SP4	SUSE Linux Enterprise 9 SP2
Microsoft Windows 2000 Advanced Server SP4	SUSE Linux Enterprise 9 EM64T
Microsoft Windows 2000 SP4 Small Business Server	SUSE Linux Enterprise 10
Microsoft Windows Server 2003 SP1/R2 Standard Edition	SUSE Linux Enterprise 10 EM64T
Microsoft Windows Server 2003 SP1 Standard Edition x64	SUSE Linux Enterprise 10 (WS)
Microsoft Windows Server 2003 SP1/R2 Enterprise Edition	IBM® AIX 5.1/5.2
Microsoft Windows Server 2003 SP1 Small Business Server	Hewlett Packard® HP-UX 11/11i
Red Hat® Enterprise Linux 3 U 6 (ES/AS)	
Red Hat Enterprise Linux 3 EM64T	
Red Hat Enterprise Linux 4 U 4 (ES/AS)	
Red Hat Enterprise Linux 4 EM64T	

### LANDESK SERVER MANAGER MINIMUM REQUIREMENTS

The core server should be dedicated to hosting LANDesk Server Manager, and must not function as a domain controller or Active Directory controller.

Supported Windows server OS using NTFS	Access to supported database
Microsoft Data Access Components (MDAC) 2.8	Access to supported Web server
Microsoft .NET Framework version 1.1. or newer, or ASP .NET 1.1 or newer	Static IP address
Microsoft Internet Explorer 6.x SP1	Internet access (for activation and access to LANDESK patch database)

### SUPPORTED CORE SERVER OPERATING SYSTEMS

Microsoft Windows 2000 Server SP4  
Microsoft Windows 2000 Advanced Server SP4  
Microsoft Windows 2003 SP1, Standard or Enterprise Edition  
Microsoft Windows Server 2003 R2, Standard or Enterprise Edition

### SUPPORTED DATABASES

Microsoft MSDE 2000 SP4  
Microsoft SQL Server 2000 SP4  
Microsoft SQL Server 2005  
Oracle 9i (9.2.0.4)  
Oracle 10g

# Cyclades PM

Intelligent Power Distribution Units



**Cyclades PM intelligent power distribution units (IPDUs) enable remote power management and control of servers and network gear.**

When used in conjunction with the Cyclades ACS console servers, DSR switch appliances and DSView 3 management software, the Cyclades PM IPDUs offer quick problem resolution through an integrated management interface. With one or more outlets positively associated with a particular device, users may control power “in line” through a user-defined “hot key” or by using an intuitive Web browser-based GUI. In addition, a special command set facilitates scripting.

Cyclades PM power devices are available in two different types: NEMA and IEC.

## **Cyclades PM - NEMA models**

The NEMA models include NEMA5-15R power outlets and NEMA input power cables. These products are designed to operate at 100-125V. The NEMA models are available in 15A, 20A and 30A units with optional twist-lock input plugs.

## **Cyclades PM - IEC models**

The IEC models include IEC320-C13 power outlets and IEC320 input connectors or fixed power cables. These products are designed to operate at 100-240V. The IEC models are available in 10A, 15A, 16A, 20A, 30A and 32A units.



Cyclades PM10 IPDU

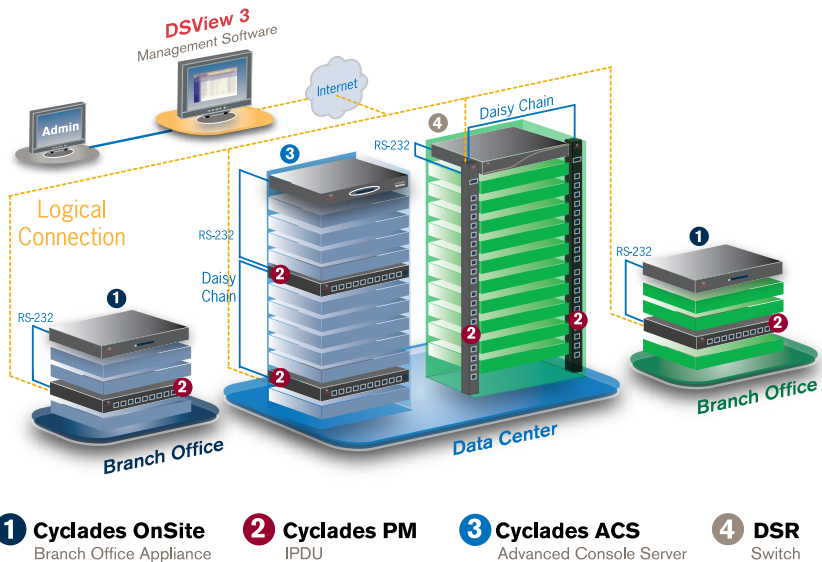
## **FEATURES AND BENEFITS**

- **Independent control** of power ports (power on/off/cycle)
- **Daisy-chaining support** at control level (up to 128 outlets)
- **Support for name assignment** to individual power outlets
- **LED on/off power indicators** per power outlet
- **LED digital current display**
- **Overcurrent alarm** (sound and console notification)
- **Horizontal (1U) and vertical (zero-U) mounting options**
- **The highest outlet density** in the market (10 power outlets per U)
- **Sequential outlet power-up feature**
- **Local authentication** support for up to 8 users
- **User access lists** per power port

## Cyclades PM Ordering Information

Product Description	Part Number
Cyclades PM10-15A IPDU	ATP3015-XXX*
Cyclades PM10-20A IPDU	ATP3020-XXX*
Cyclades PM10-L20A IPDU	ATP3025-XXX*
Cyclades PM10-L30A IPDU	ATP3035-XXX*
Cyclades PM10i-10A IPDU	ATP3110-XXX*
Cyclades PM10i-15A IPDU	ATP3115-XXX*
Cyclades PM10i-16A IPDU	ATP3116-XXX*
Cyclades PM10i-20A IPDU	ATP3120-XXX*
Cyclades PM10i-32A IPDU	ATP3230-XXX*
Cyclades PM10i-32Au IPDU	ATP3232-XXX*
Cyclades PM20i-16A IPDU	ATP2035-XXX*
Cyclades PM20i-L30A IPDU	ATP3130-XXX*
Cyclades PM20i-32A	ATP2132-XXX*
Cyclades PM20i-32Au	ATP2131-XXX*
Cyclades PM42-30A	ATP4200-XXX*
Universal mounting bracket for vertical mounting PM models	RMK-57

\*Please consult Avocent price list for correct regional ordering code.



Cyclades PM Specifications							
NEMA Models	Input Connection	Max. input branch circuit rating	Input Voltage	Outlet current	No. of outlets	Form factor	Approvals
<b>Cyclades PM10-15A</b>	NEMA5-15P	15 amps	100-125	15 amps	10	Horizontal	FCC, Class A CSA
<b>Cyclades PM10-20A</b>	NEMA5-20P	20 amps	100-125	15 amps	10	Horizontal	FCC, Class A CSA
<b>Cyclades PM10-L20A</b>	NEMAL5-20P	20 amps	100-125	15 amps	10	Horizontal	FCC, Class A CSA
<b>Cyclades PM10-L30A</b>	NEMAL5-30P	30 amps	100-125	15 amps	10	Horizontal	FCC, Class A CSA
IEC Models							
<b>Cyclades PM10i-10A</b>	IEC320-C14	10 amps	100-240	10 amps	10	Horizontal	EN55022,A (CE) EN55024 EN60950, C-tick
<b>Cyclades PM10i-15A</b>	IEC320-C14	15 amps	100-240	10 amps	10	Horizontal	FCC, Class A CSA
<b>Cyclades PM10i-16A</b>	IEC320-C20	16 amps	100-240	10 amps	10	Horizontal	EN55022,A (CE) EN55024 EN60950, C-tick
<b>Cyclades PM10i-20A</b>	IEC320-C20	20 amps	100-240	10 amps	10	Horizontal	FCC, Class A CSA
<b>Cyclades PM10i-32Au</b>	Unterminated	32 amps	100-240	10 amps	10	Horizontal	EN55022,A (CE) EN55024 EN60950, C-tick
<b>Cyclades PM10i-32A</b>	IEC309	32 amps	100-240	10 amps	10	Horizontal	EN55022,A (CE) EN55024 EN60950, C-tick
<b>Cyclades PM20i-16A</b>	IEC320-C20	16 amps	100-240	10 amps	20	Vertical	EN55022,A (CE) EN55024 EN60950, C-tick
<b>Cyclades PM20i-L30A</b>	NEMA L6-30P	30 amps	100-240	10 amps	20	Vertical	FCC, Class A CSA
<b>Cyclades PM20i-32A</b>	IEC309	32 amps	100-240	10 amps	20	Vertical	EN55022,A (CE) EN55024 EN60950, C-tick
<b>Cyclades PM20i-32Au</b>	Unterminated	32 amps	100-240	10 amps	20	Vertical	EN55022,A (CE) EN55024 EN60950, C-tick



# Cyclades

Advanced Console Server



## A Complete Console Management Solution

The Cyclades ACS advanced console servers give IT professionals and network operations centre (NOC) personnel the ability to perform secure, remote data centre management and out-of-band management of IT assets from anywhere in the world.

Using a hardened Linux® operating system, the Cyclades ACS console server provides optimal performance, security and reliability. When used with the Cyclades PM intelligent power distribution unit (IPDU) and DSView 3 management software, the Cyclades ACS console server offers a secure and consolidated out-of-band management solution.

## Enhanced Security Framework

Cyclades ACS console servers offer the industry's first Enhanced Security Framework that provides preset security profiles (secure, moderate and open) and the flexibility for IT managers to customise security profiles to comply with existing network security policies. The Cyclades ACS console servers offer strong authentication technology with One-Time Password (OTP) and Extensible Authentication Protocol (EAP) ensuring only authorised users gain access to enterprise resources. It also offers secure clustering for console management of up to 1,024 devices. Available in 1-, 4-, 8-, 16-, 32- and 48-port models that fit in 1U of rack space, the Cyclades ACS console server helps maximise IT asset productivity while providing scalability and reducing operational costs.



Cyclades ACS32 Console Server

## FEATURES

- Secure console and power management
- Server and network management
- Telco central office remote console management
- Legacy terminal server environments
- Industrial/commercial automation
- Ethernet-attached serial board replacement

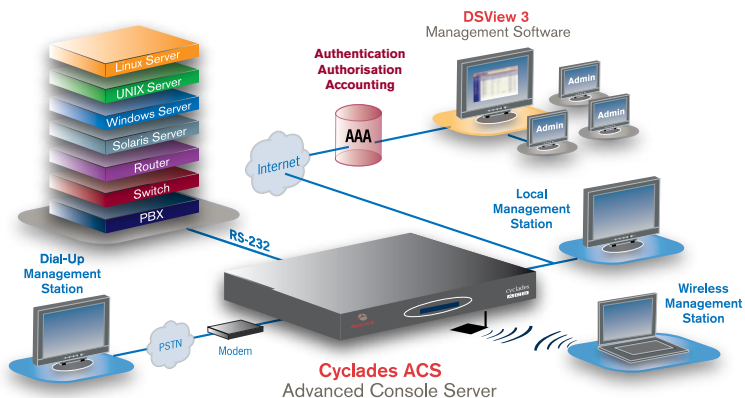
## BENEFITS

- Industry-leading Enhanced Security Framework (adherence to security policies using preset and custom security profiles)
- Centralised administration (using DSView 3 management software)
- Highly available (dual power supply and Ethernet failover)
- Secure in-band and out-of-band network remote management
- Power management (integrated multi-outlet power control)
- Rack space savings (1U form factor)
- Windows® Server 2003 Emergency Management Services (EMS) support
- Improved network monitoring
- IPMI power management
- Flexibility to support existing and future Interfaces (PC card support)

## Cyclades ACS Ordering Information

Product Description	Part Number
<b>Cyclades ACS4 Advanced Console Server</b> Single power supply, AC model	ATP0170-XXX*
<b>Cyclades ACS4 Advanced Console Server</b> Single power supply, DC model	ATP0175
<b>Cyclades ACS4 Advanced Console Server</b> Dual power supply, AC model	ATP0180-XXX*
<b>Cyclades ACS4 Advanced Console Server</b> Dual power supply, DC model	ATP0185
<b>Cyclades ACS8 Advanced Console Server</b> Single power supply, AC model	ATP0120-XXX*
<b>Cyclades ACS8 Advanced Console Server</b> Single power supply, DC model	ATP0125
<b>Cyclades ACS8 Advanced Console Server</b> Dual power supply, AC model	ATP0130-XXX*
<b>Cyclades ACS8 Advanced Console Server</b> Dual power supply, DC model	ATP0135
<b>Cyclades ACS16 Advanced Console Server</b> Single power supply, AC model	ATP0010-XXX*
<b>Cyclades ACS16 Advanced Console Server</b> Single power supply, DC model	ATP0015
<b>Cyclades ACS16 Advanced Console Server</b> Dual power supply, AC model	ATP0050-XXX*
<b>Cyclades ACS16 Advanced Console Server</b> Dual power supply, DC model	ATP0055
<b>Cyclades ACS32 Advanced Console Server</b> Single power supply, AC model	ATP0100-XXX*
<b>Cyclades ACS32 Advanced Console Server</b> Single power supply, DC model	ATP0105

\*Please consult Avocent price list for correct regional ordering code



<b>Cyclades ACS Ordering Information</b>	
<b>Product Description</b>	<b>Part Number</b>
<b>Cyclades ACS32 Advanced Console Server</b> Dual power supply, AC model	ATP0150-XXX*
<b>Cyclades ACS32 Advanced Console Server</b> Dual power supply, DC model	ATP0155
<b>Cyclades ACS48 Advanced Console Server</b> Single power supply, AC model	ATP0190-XXX*
<b>Cyclades ACS48 Advanced Console Server</b> Single power supply, DC model	ATP0210
<b>Cyclades ACS48 Advanced Console Server</b> Dual power supply, AC model	ATP0200-XXX*
<b>Cyclades ACS48 Advanced Console Server</b> Dual power supply, DC model	ATP0205

<b>NEBS-Certified ACS</b>	
<b>Product Description</b>	<b>Part Number</b>
<b>Cyclades ACS16 NEBS Advanced Console Server</b> Single power supply (-48VDC)	ATP0017
<b>Cyclades ACS32 NEBS Advanced Console Server</b> Single power supply (-48VDC)	ATP0107
<b>Cyclades ACS16 NEBS Advanced Console Server</b> Dual power supply (-48VDC)	ATP0056
<b>Cyclades ACS32 NEBS Advanced Console Server</b> Dual power supply (-48VDC)	ATP0156

<b>Cables</b>	
<b>Product Description</b>	<b>Part Number</b>
<b>RJ-45M to DB-25F crossover cable (6 ft)</b>	CAB0017
<b>RJ-45M to RJ-45M straight-thru CAT5 cable (7 ft)</b>	CAB0018
<b>RJ-45M to DB-25M straight-thru cable (6 ft)</b>	CAB0025
<b>RJ-45M to DB-9F crossover cable (6 ft)</b>	CAB0036
<b>RJ-45M to RJ-45M Sun/Cisco crossover cable (10 ft)</b>	CAB0045
<b>RJ-45M to DB-25M crossover cable (6 ft)</b>	CAB0046
<b>DB-9F to DB-9F crossover cable (6 ft)</b>	CAB0286

\*Please consult Avocent price list for correct regional ordering code.

## Cyclades ACS Specifications

MECHANICAL	Height	Width	Depth
<b>Units</b>	4.45 cm	43.18 cm	21.59 cm
<b>Weight</b>	Single Power		Dual Power
4-port	2.86 kg		2.95 kg
8-port	2.86 kg		2.99 kg
16-port	2.90 kg		3.04 kg
32-port	2.95 kg		3.13 kg
48-port	3.58 kg		3.67 kg
<b>Operating System</b>	Linux		
<b>CPU</b>	MPC855T (PowerPC dual CPU)		
<b>Memory</b>	128MB DIMM SDRAM/32MB compact flash		
<b>Interfaces</b>	1 Ethernet 10/100BT on RJ-45 1 RS-232 console on RJ-45 RS-232 serial ports on RJ-45		
<b>PC Card slots supporting</b>	Modems (V.92 and ISDN), secondary Ethernet, fast Ethernet (fiber optic), wireless LAN (GPRS, GSM and CDMA), compact flash and IDE drive		
<b>ENVIRONMENTAL/POWER/HARDWARE</b>			
Operating Temperature	10°C to 44°C		
Storage Temperature	-40°C to 85°C		
Humidity	5% to 90% noncondensing		
Power	Internal 100-240VAC, 50/60 Hz Optional -48 VDC power supply Optional dual entry, redundant AC and DC power supplies		
<b>CERTIFICATIONS</b>			
Approved Agency	FCC Part 15 Class A, EN55022, Class A (CE), EN55024, NEBS Level 3 <sup>†</sup> , UL/cUL, TUV/GS, Japan VCCI V3/2003.4, BSMI, CB Scheme (IEC 60950), MIC, S-Mark, ICES-03,-Tick, Solaris Ready™		
	<sup>†</sup> Only ACS16 and ACS32 DC (single and dual power supply) models.		

# AMX Analogue KVM Switches

Powerful analogue matrix switching



The Avocent AMX KVM switch is an analogue based solution ideal for environments where users and servers reside within a centralised location.

The AMX switch is an excellent KVM solution for demo labs, designer environments and test labs where real-time access and high quality video are critical features.

The AMX switch solution includes the AMX5000, AMX5010, AMX5020 and AMX5030 analog matrix switches, the AMIQ UTP server interface module, the AMX5111, AMX5121 and AMX5130 user stations and the AMWorks® Java-based system administrative software tool.

## SAMPLE AMX SWITCH APPLICATIONS

**Broadcasters** - Leading TV networks, including FOX, ABC and CNBC, use the Avocent AMX KVM switching solution to control access to their machine room computers and broadcast computers

**Demo Labs** - Multiple users in demo labs use the AMX switch solution to monitor live testing on hundreds of servers from various locations throughout the lab

**Designers** - Designers including Web, CAD houses and graphic production companies use the Avocent AMX switch to gain real-time access to their business-critical computers

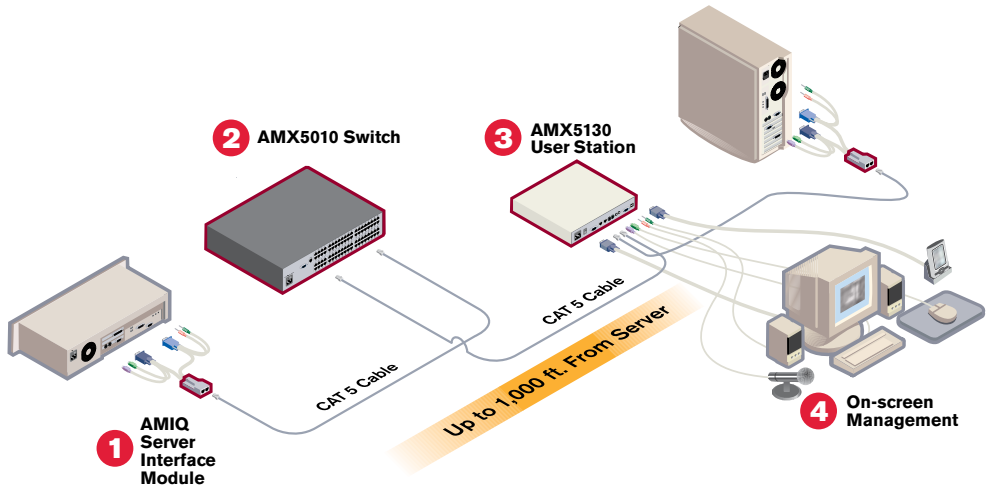
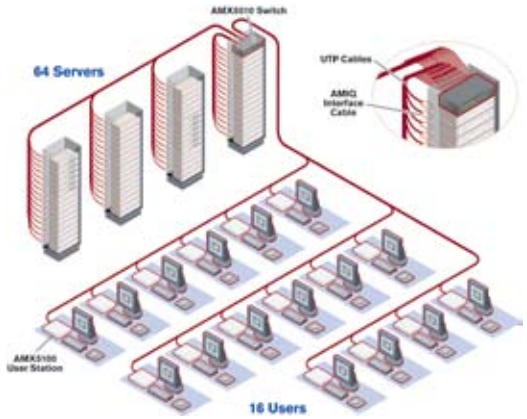
**Test Labs** - The AMX switch is very effective in server installations like test labs where multiple users simultaneously access and monitor testing simulation on hundreds of servers

## AMX SWITCH FEATURES AND BENEFITS

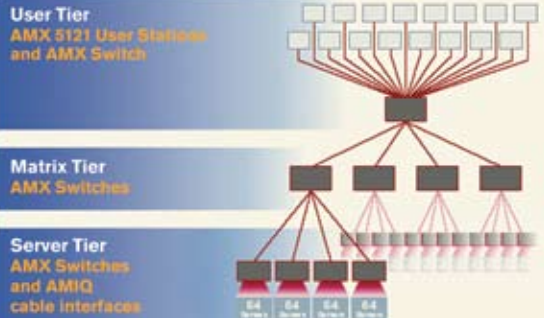
- **Access** - Full non-blocked access for AMX5000, AMX5010 and AMX5020 switches
- **Expandability/Scalability** - Architecture makes it easy to add and support more servers
- **Connectivity** - End-to-end UTP cable, including CAT 5, 5e, CAT 6
- **AMIQ Server Interface Module** - Assigns and stores unique server identification code for easier configuration and enhanced security
- **LDAP authentication** - Authenticates against existing username/password database
- **Enhanced SNMP** - Sets up traps and sends alarms
- **Security** - Access securely located computers from any user environment, including the user's desk
- **Flash Upgrade** - Simultaneously applies flash updates for all connected firmware
- **AMWorks Software** - Easier management with our advanced software
- **Event Log** - AMWorks software tool maintains a record of user logins and switching activity
- **High Quality Video** - Automatically compensates for varying cable types and lengths and adjusts for signal losses each time a switch is made to a server
- **Provides integrated audio and serial support**

Simple Installation example

1. Connect the AMIQ CAT5 server interface module to the appropriate ports on the target server.
2. Connect the AMIQ CAT5 cable interface to one of the 64 server ports on the rear of AMX5010 matrix switch using CAT5 cabling.
3. Connect the AMX matrix switch to the user connection on the rear of the AMX5020 user station using CAT5 cabling.
4. Connect the user's KVM peripherals to the KVM ports on the rear of the AMX5130 user station.



Expand above 64 servers by tiering AMX switches using standard UTP connections; With tiering it is possible to expand to as many as 4,096 servers



# AMX Analogue KVM Switches

Powerful analogue matrix switching



## AMX SWITCH COMPONENTS

### AMX5000, AMX5010, AMX5020, AMX5030 Switches



- Provide full, non-blocked access to servers
- Delivers real-time, high bandwidth video up to 300 metres from the server
- Front panel LED indicators add to ease-of-use
- Network connection on each appliance for easy management
- Scalable architecture makes it easy to add and support more servers and users

### AMX5111, AMX5121, AMX5130 User Stations



- Access to the AMX switch from your desk
- Provide high-quality video: Automatically compensates for varying cable types and lengths; CAT 5, CAT 5e and CAT 6 including GigaFlex; Offers video resolutions up to 1280 x 1024 at 500 metres; Adjusts for skew between RGB signals each time a switch is made to a server
- Send/receive audio with the AMX5130 user station
- Send/receive serial data with the AMX5130 user station

### AMIQ Module



- The AMIQ enhanced UTP server interface module eliminates bulky cabling connections and delivers real-time high bandwidth video for KVM switching up to 300 metres away from the server
- Built-in memory assigns unique server ID codes simplifying configuration
- Cable intelligence enhances security and prevents unauthorised access to a server through cable manipulation
- Dual UTP support (AMX5130 user station)

### Oscar and AMWorks software



- The OSCAR graphical user interface lets you conveniently switch between connected devices
- AMWorks software provides centralised administration of the AMX switch installation
- AMWorks software supports customised user profiles and multi-level security and allows you to build a user database with assigned access and password protection for each server
- View all activities that take place on the KVM system

## AMX Switches

AMX Switches					
Product	Users	Ports	Platforms	Order Code	Key Features
<b>AMX5000</b>	8	32	PC, USB, Sun & Serial	AMX5000-XXX*	32 Server matrix switch
<b>AMX5010</b>	16	64	PC, USB, Sun & Serial	AMX5010-XXX*	64 Server matrix switch
<b>AMX5020</b>	4	42	PC, USB	AMX5020-XXX*	42 Server matrix switch
<b>AMX5030</b>	4	16	PC, USB, Sun & Serial	AMX5030-XXX*	Delivers real time high bandwidth up to 300metres from the server
<b>AMX5111</b>	1	2	PC, USB, Sun & Serial	AMX5111-XXX*	2 x UTP connection, desktop user station with local PC port, no skew
<b>AMX5121</b>	1	2	PC, USB, Sun & Serial	AMX5121-XXX*	2 x UTP connection, desktop user station with local PC port
<b>AMX5130</b>	1	2	PC, USB, Sun & Serial	AMX5130-XXX*	2 x UTP connection, desktop user station with local PC port, audio and serial support, 2 UTP, USB keyboard/mouse support

Cables and modules	Part Number
Server Interface Module, VGA, PS/2 keyboard/mouse	AMIQ PS2
Server Interface Module, VGA, PS/2 keyboard/mouse	AMIQ USB
Server Interface Module, VGA or 13W3, Sun keyboard/mouse	AMIQ VSN
Server Interface Module, VT100 serial	AMIQ SRL
PS/2 Interface module for AMX5130 with audio and serial	AMIQDM-PS/2
USB Interface module for AMX5130 with audio and serial	AMIQDM- USB
Sun Interface module for AMX5130 with audio and serial	AMIQDM- VSN
Power supply for serial IQ	UPD-XXX*
10-pack, server interface module for VGA video, PS/2 keyboard/mouse	AMIQ-PS210
32-pack, server interface module for VGA video, PS/2 keyboard/mouse	AMIQ-PS232
AMX5111, AMX5121 & AMX5130 user station 19" rack mount kit	RMK-40
Desk mount kit for the AMX user station	DMK-01
*Please consult Avocent price list for correct regional ordering code	

# AMX5000, AMX5010, AMX5020 and AMX5030

Analogue Matrix Switches



**Built on the Avocent superior analogue switching technology, the AMX5000, AMX5010, AMX5020 and AMX5030 matrix switches simplify management in evolving server installations.**

This solution has a highly scalable architecture that easily accommodates additional servers and users in growing network infrastructures. These matrix switches provide access from a single point or simultaneous access for up to 16 users throughout the data centre.

## SWITCH COMPARISON

**AMX5000:** 8 users x 32 servers

**AMX5010:** 16 users x 64 servers

**AMX5020:** 4 users x 42 servers

**AMX5030:** 4 users x 16 servers



AMX5000 Switch



AMX5010 Switch



AMX5030 Switch

## AMX SWITCH FEATURES

- Provides access to all major server platforms and serial devices
- Ideal for growing IT infrastructures with multi-rack, multi-device, multi-platform deployments
- Provides full non-blocked access to servers
- Provides ease of use with front panel LED indicators
- Advanced JAVA-based AMWorks software included with all AMX switches
- Compact designed AMIQ server interface module, which provides connectivity from server to the switch, dramatically reduces cable bulk and saves valuable space in the rack
- AMX5030 delivers real-time, high bandwidth video up to 300 metres from the server

## AMX5000, AMX5010, AMX5020, AMX 5030 Switches

### AMX5000, AMX5010, AMX5020, AMX5030 Switches Ordering Information

Product	Part Number
8 User x 32 Server matrix switch	AMX5000-XXX*
16 User x 64 Server matrix switch	AMX5010-XXX*
4 User x 42 Server matrix switch	AMX5020-XXX*
4 user x 16 Server matrix switch	AMX5030-XXX*

\*Please consult Avocent price list for correct regional ordering code

### AMX5000, AMX5010, AMX5020, AMX5030 Switches Specifications

MECHANICAL	Height	Width	Depth	Weight
<b>AMX5000</b>	4.3 cm	43.2 cm	28.1 cm	3.7Kg
<b>AMX5010</b>	8.6 cm	43.2 cm	28.1 cm	7.27Kg
<b>AMX5020</b>	4.3 cm	43.2 cm	35.2 cm	4.2Kg
<b>AMX5030</b>	4.3 cm	43.2 cm	35.2 cm	4.2Kg

### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	10°C to 35°C
Storage Temperature	-40°C to 65°C
Input Power	N/A
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz
Supported Hardware - Computer	PS/2, USB, Sun, Serial
Supported Hardware - Video Modes	VGA, SVGA, XGA, SXGA, up to 1600 x 1200 @ 75 Hz resolution
Supported Hardware - Peripherals	PS/2keyboard, PS/2mouse, IntelliMouse (PS/2only), Sun Type 5 and Type 6
Supported Cable Types	Unshielded twisted pair, including CAT5, CAT5e, CAT6

### WARRANTY

Two Years
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# AMX5111, AMX5121 and AMX5130

User Stations



**The AMX5111, AMX5121 and AMX5130 user stations simplify access at the desk by increasing user control and delivering optimal real-time video to the user's desk.**

The user stations provide access from the desk to one matrix switch and one local computer.

The user stations connect to the user's multi-platform KVM peripherals and send the KVM signals over an industry-standard UTP cable to the Avocent AMX5000, AMX5010 and AMX5020 analogue matrix switches. This UTP connectivity and analogue switching technology provide multi-user access and control to any server in your network.

The AMX5130 user station enables the user to switch speakers and microphone and provides for serial switching up to 38.4Kbps. All the AMX user stations automatically compensate for varying cable types and lengths such as CAT 5, CAT 5e and CAT 6 including GigaFlex. The user stations' design also adjusts for skew between RGB signals each time a switch is made to a server.

## USER STATION COMPARISON

**AMX5111:** Single user, UTP connection, desktop user station with local PC port, no skew

**AMX5121:** Single user UTP connection, desktop user station with local PC port

**AMX5130:** Desktop user station with local PC port, FM quality audio and serial support, USB keyboard/mouse support



AMX 5130 User Station

## AMX USER STATION FEATURES

- **Video Display** - Optimal video resolutions up to 1280 x 1024 at 300 metres
- **Connectivity** - End-to-end UTP cable, including CAT 5, CAT 5e, CAT 6
- **Enables switching of stereo speakers** and mono microphone
- **Provides serial switching up to 38.4Kbps**
- **Compact Design** - Doubles as a monitor stand with zero footprint on the desk
- **Multi-platform** - Supports PS/2, Sun and USB peripherals
- **Works with patented OSCAR** on-screen graphical interface to assist you with configuration and server selection
- **Flash Upgrade** - simultaneously applies flash updates for all connected devices
- **High Quality Video** - automatically compensates for varying cable types and lengths and adjusts for signal losses each time a switch is made to a server
- **Local PC Access** - user stations allow a local computer to be used for the same AMX user interface

## AMX5111, AMX5121, AMX5130 User Stations

### AMX 5111, AMX5121, AMX5130 User Stations Ordering Information

Product	Part Number
PS/2 and USB desktop user station w/ AMIQ-PS2 module for a local PC connection	AMX5111-XXX*
PS/2 and USB desktop user station w/ automatic skew compensation & AMIQ-PS2 module for a local PC connection	AMX5121-XXX*
Single user UTP connection, desktop user station with local PC port, audio and serial support, USB keyboard/mouse support	AMX5130-XXX*

\*Please consult Avocent price list for correct regional ordering code

### AMX5111, AMX5121, AMX5130 User Station Specifications

MECHANICAL	Height	Width	Depth	Weight
<b>AMX5111</b>	4.4 cm	27.9 cm	29.2 cm	2.0Kg
<b>AMX5121</b>	4.4 cm	27.9 cm	29.2 cm	2.0Kg
<b>AMX5130</b>	4.4 cm	27.9 cm	29.2 cm	2.0Kg

### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 50°C
Input Power	N/A
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz
Supported Hardware - Computer	PS/2, USB, Sun, Serial
Supported Hardware - Video Modes	VGA, SVGA, XGA, SXGA, up to 1600 x 1200 @ 75 Hz resolution
Supported Hardware - Peripherals	AMX5111, AMX5121 & AMX 5130 User Stations: PS/2 and USB keyboard and mouse IntelliMouse (PS/2only), Sun Type 5 and Type 6
Supported Cable Types	Unshielded twisted pair, including CAT5, CAT5e, CAT6

### WARRANTY

Two Years

# AMIQ Modules, OSCAR Interface and AMWorks Software



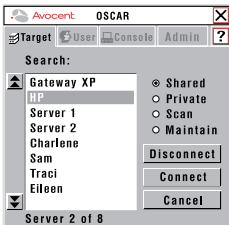
## AMIQ Module

The AMIQ enhanced UTP server interface module is the best choice for flexibility and performance in complex IT environments. Our UTP design and video technology eliminates bulky cabling connections and delivers real-time, high bandwidth video for KVM switching up to 300 metres away from the server. The AMIQ module has built-in memory that eases configuration by assigning and retaining unique server identification codes for each attached server. This cable intelligence enhances security and prevents unauthorised, one word access to a server through cable manipulation. The AMIQDM modules include a dual UTP interface which doubles the number of users that can be connected to any AMX switch.



## OSCAR Interface

The user stations work with the Avocent OSCAR interface. This interface uses multi-lingual, intuitive menus for point and click system configuration and server selection. This full-system management tool supports switching in share, private and scan modes.



## AMWORKS Software

If you require centralised administration of the AMX switch, AMWorks software is included free with each switch. AMWorks software supports customised user profiles and multi-level security. AMWorks software allows you to build a user database with assigned access and password protection for each server.

You can view all activities that take place on the KVM system, including user login, switches made to servers, and changes made to the system connections or setup. The database is centrally stored and can be downloaded to the switch via the network connection port available on all AMX5000, AMX5011 and AMX5021 switches.

The AMIQDM module includes dual UTP connections, allowing you to more easily configure the AMX switch system when a large number of users are attached.



## AMIQ Modules, OSCAR Interface and AMWorks Software

### AMIQ, OSCAR and AMWorks Ordering Information

Order Details	Part Number
Server Interface Module, VGA, PS/2 keyboard/mouse	AMIQ-PS2
Server Interface Module, VGA, USB keyboard/mouse	AMIQ-USB
Server Interface Module, VGA or 13W3, Sun keyboard/mouse	AMIQ-VSN
Server Interface Module, VT100 serial	AMIQ-SRL
PS/2 Interface module for AMX5130 with audio and serial, 2 UTP	AMIQDM-PS/2
USB Interface module for AMX5130 with audio and serial, 2 UTP	AMIQDM- USB
Sun Interface module for AMX5130 with audio and serial, 2 UTP	AMIQDM- VSN
Power supply for serial IQ	UPD-XXX***

\*Please consult Avocent price list for correct regional ordering code

Note: AMWorks software and OSCAR interface are bundled free with every AMX switch

### AMIQ, OSCAR and AMWorks Specifications

MECHANICAL	Height	Width	Depth	Weight
<b>AMIQ-PS2</b>	2.0 cm	4.0 cm	9.8 cm	0.3Kg
<b>AMIQ-USB</b>	2.0 cm	4.0 cm	9.8 cm	0.3Kg
<b>AMIQ-VSN</b>	2.0 cm	4.0 cm	9.8 cm	0.3Kg
<b>AMIQ-WSN</b>	2.0 cm	4.0 cm	9.8 cm	0.3Kg
<b>AMIQDM-PS2</b>	2.0 cm	4.0 cm	9.9 cm	0.3Kg
<b>AMIQDM-USB</b>	2.0 cm	4.0 cm	9.9 cm	0.3Kg

### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 50°C
Input Power	N/A
Operating Voltage	100 - 240 VAC
Power Frequency	50 - 60Hz
Supported Hardware - Computer	PS/2, USB, Sun, Serial
Supported Hardware - Video Modes	VGA, SVGA, XGA, SXGA, up to 1600 x 1200 @ 75 Hz resolution
Supported Hardware - Peripherals	PS/2keyboard, PS/2mouse, IntelliMouse (PS/2only), Sun Type 5 and Type 6
Supported Cable Types	Unshielded twisted pair, including CAT5, CAT5e, CAT6

### WARRANTY

Two Years

## LCD Rack Console - Single Rail

At-The-Rack Access



**Convenient at-the-rack solution for accessing and controlling your PCs and servers.**

The Avocent 1U-high LCD single rail rack console provides out-of-band access to KVM switches in SMB, data centers and server rooms for convenient access and control of your PCs and PS/2 servers. Out-of-band access to your critical servers is non-intrusive to your network and reduces downtime. All LCD single rail rack consoles include an on-screen display (OSD) in multiple languages. The Grade A monitor, TFT active-matrix supports 1024x768 resolution @ 60Hz (15-inch monitor) and 1280x1024 @ 60Hz (17-inch monitor). For the security-conscious user, a key lock controls access to the LCD console.



LCD Rack Console - Single Rail

### LCD RACK CONSOLE - SINGLE RAIL FEATURES

- **Out-of-band access** - Access to your critical servers is non-intrusive to your network and reduces downtime
- **High quality** - Grade A monitor, 15-inch TFT active-matrix supports 1024x768 resolution @ 60Hz
- **Space saving** - 15-inch design includes 1U slide-in console that minimises valuable space in the rack
- **Multilingual** - An on-screen display (OSD) in multiple languages
- **Security** - Key lock provides an additional level of physical security

## LCD Rack Console - Single Rail

### LCD Rack Console Ordering Information

Product		Part Number
<b>LCD15 Rack Console</b>	The Avocent 1U high PC LCD15 rack console provides convenient at-the-rack access to KVM switches in SMB server rooms and enterprise data centers	LCD15SRP-XXX*
<b>LCD17 Rack Console</b>	The Avocent 1U high PC LCD17 rack console provides convenient at-the-rack access to KVM switches in SMB server rooms and enterprise data centers	LCD17SRP-XXX*

\*Please consult Avocent price list for correct regional ordering code

### LCD Rack Console Specifications

MECHANICAL	Height	Width	Depth	Weight	Style
<b>Units</b>	44 mm	482 mm	447.5 mm	11.8 Kg	Rack

### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 50°C
Storage Temperature	-4°C to 60°C
Input Power	Consumption 16W
Operating Voltage	100-240 VAC
Computer	PS/2
Monitors	KVM switch local port PS/2
Colors	16M (6 bit with FRC)
Resolution	1024 x 768
Keyboard/Mouse	106 key PS/2 keyboard and touch pad mouse

### STANDARDS

Approved Agency	cUL, UL, CE, FCC, C-Tick
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### WARRANTY

Length	Two Year
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# LCD Rack Console - Dual Rail

At-The-Rack Access



**Convenient at-the-rack solution for accessing and controlling your PCs and servers.**

The Avocent 1U high LCD17 rack console provides convenient at-the-rack access to KVM switches in SMB server rooms and enterprise data centers. You benefit by easy access and control of your PCs and servers. Additionally, rack-based access reduces downtime when your network is unavailable. The unique dual-rail design allows the keyboard and 17-inch LCD display to slide in and out independently of each other. This means you can view the display even when the rack door is closed. For the security-conscious user, a key lock feature is also included.



LCD Rack Console - Dual Rail

## LCD RACK CONSOLE - DUAL RAIL FEATURES

- **At-the-Rack Access** - Provides convenient access and control to PCs and servers.
- **Dual Rail** - Slides out independent of the keyboard. You can view the display even when the rack door is closed.
- **Form Factor** - The Avocent LCD17 rack console is easy to access and its 1U slide-in design does not compete for valuable rack space.
- **KVM Compatibility** - The design is compatible with most Avocent 1U KVM switches to support new and legacy installations.
- **Security** - A key lock prevents access to the keypad or LCD rack console.

# LCD Rack Console - Dual Rail

## LCD Rack Console Ordering Information

Product	Part Number
<b>LCD17 Rack Console</b> The Avocent 1U high LCD17 rack console provides convenient at-the-rack access to KVM switches in SMB server rooms and enterprise data centers	LCD17-XXX*

\*Please consult Avocent price list for correct regional ordering code

## LCD Rack Console Specifications

MECHANICAL	Height	Width	Depth	Weight	Style
<b>Units</b>	44 mm	455 mm	450 mm	11.4 Kg	Rack

## ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 60°C
Input Power	25 W maximum (LCD 19 W)
Operating Voltage	100-240 VAC
Computer	PS/2 - USB
KVM Switch	PS/2 and USB ports
Colors	16.2 M (6 bit with RFC)
Resolution	1280 x 1024
Keyboard/Mouse	106 key PS/2 keyboard and touch pad mouse

## STANDARDS

Approved Agency	cUL, UL, CE, FCC, C-Tick
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## WARRANTY

Length	Two Year
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## LCD Console Switch

Rack Console with Integrated KVM Switch



**Convenient at-the-rack solution for accessing and controlling your PCs and servers.**

The 17-inch LCD rack console and SwitchView® 1000 8-port KVM switch create a single integrated access solution for SMB and server room environments. This solution provides optimal support of PS/2 and USB systems. Out-of-band access to critical servers is non-intrusive to the network and reduces downtime. The LCD console switch includes an On-Screen Display (OSD) in multiple languages. The Grade A 17-inch TFT active-matrix monitor supports 1280x1024 resolution @ 60Hz. For the security-conscious user, a key lock controls access to the LCD rack console.



LCD Console Switch

### LCD CONSOLE SWITCH FEATURES

- All-in-one design - 17-inch rack console integrated with single-user, 8-port rack mount switch; 1U slide-in console minimises valuable space in the rack
- Multi-platform support - PS/2 and USB
- PS/2 and USB 5-in-1 integrated cables included
- Out-of-band access - Access to your critical servers is non-intrusive to your network and reduces downtime
- Security - LCD key lock provides an additional level of physical security
- Multilingual - On-Screen Display (OSD) in multiple languages

## LCD Console Switch

### LCD Console Switch Ordering Information

Product	Part Number
<b>LCD17 Console Switch</b> The Avocent 1U high LCD17 rack/switch console provides convenient at-the-rack access to KVM switches in SMB server rooms and enterprise data centers	LCD17SWT8-XXX*

\*Please consult Avocent price list for correct regional ordering code

### LCD Console Switch Specifications

MECHANICAL	Height	Width	Depth	Weight	Style
<b>Units</b>	44 mm	447.5 mm	592 mm	13 Kg	Rack

### ENVIRONMENTAL/POWER/HARDWARE

Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 60°C
Input Power	25 W maximum (LCD 19 W)
Operating Voltage	100-240 VAC
Computer	PS/2 - USB
KVM Switch	PS/2 and USB ports
Colors	16.2 M (6 bit with RFC)
Resolution	1280 x 1024
Keyboard/Mouse	106 key PS/2 keyboard and touch pad mouse

### STANDARDS

Approved Agency	cUL, UL, CE, FCC, C-Tick
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### WARRANTY

Length	Two Year
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