



Federal IT Solutions

The latest technology to
build, extend, and secure
your network.



All GSA
items ship
FREE!



IT Infrastructure

Pages 2–4, 11–13, 16–18, 20



High-Performance KVM

Pages 5–8



AV, Multimedia, & Digital Signage

Pages 14–15



Specialty Networking

Pages 9–10, 21

The right IT solutions

Get the right products with unlimited FREE technical support.

For more than 35 years, Black Box has been providing federal, state, and local governments with a wide array of IT products, services, and solutions. Need custom, American-made, and EAL2+/TEMPEST products? You'll find them at Black Box. You can also comply with small- and disadvantaged-business requirements by leveraging our huge network of reseller partners. When it comes to IT infrastructure and networking equipment, we can help you simplify, streamline, and speed up the procurement process.



Free, Live, 24/7 Tech Support

- Questions? Get answers fast and free.
- Call us at **724-746-5500** or go to our Web site, **blackbox.com**, to chat on-line or e-mail your questions.
- Our U.S.-based techs answer your calls in 30 seconds or less and have an average of 15 years' experience.



Hundreds of New Products

- Digital video extension and switching.
- Security locking cables.
- WAN encryption.
- Matrix KVM solution.
- HDMI switching and scaling.



Same-Day Shipping

- Most in-stock products ship the same day. Need it faster? Ask about next-day or same-day delivery.
- FREE standard shipping on GSA items.
- Check stock now at **724-746-5500**.



No Hassle Warranty

- Products include our exclusive Double Diamond™ warranty, which protects products even from accidental damage.
- You can also extend your warranty or cover previously purchased products.
- 45-day no-risk returns with no fee.



Custom Products

- Have a unique challenge? We'll design a one-of-a-kind solution.
- Call one of our 24/7 custom experts today at **724-746-5500**.



5 Easy Ways to Order

1. Phone: **724-746-5500** — 24 hours a day, 7 days a week
2. On-line: **blackbox.com**
3. E-mail: **orders@blackbox.com**
4. Fax: **800-321-0746**
5. Mail: **1000 Park Drive
Lawrence, PA 15055-1018**

Welcome to Black Box: 45-Day, No-Risk Returns | Custom-Engineered Products

for government networks.

- Simplify: We'll help you find the right IT solutions.
- Streamline: Unlimited FREE, live IT help.
- Speedy service: Most orders shipped same day.

Same-day
quotes

Get the right solutions to help you reduce power costs, improve ROI, and comply with regulations.



Cooling Solutions

Cut cooling and power costs by 50%.
For details, see p. 2.



Custom Cabinets

Choose your options and we'll ship your cabinet—fully assembled—in two days.
For details, see p. 3.



Secure Switching

Secure KVM switching just got more secure with EAL2+ and TEMPEST certified switches.
For details, see p. 5.



Encryption

Get transparent WAN encryption with no VPN tunnels. For details, see p. 9.



FIPS-Certified Console Servers

Save time—get 24/7 continuous access to console ports on remote devices. For details, see p. 10.



TAA CAT6/6A Lockable Patch Cables and Port Locks

Premium performance with optional lockability.
For details, see p. 16.



GSA Schedule 70

GSA Contract # GS-35F-0158J

Open to all government agencies.

- Cage Code: 59951
- Federal ID# 25-1272662
- DUNS# 082254871

Black Box accepts all government purchasing cards and does WAWF Invoicing. Black Box GSA listed products are also available on:

- NASA (SEWP IV)
- Army CHES
- NIH ECS III
- NETCENTS
- DHS FirstSource

If you need a small business partner to purchase Black Box products, please let us know. We have a wide range of small business partners in every category to meet your procurement needs.

Government specialist hotline:
724-746-5500 or go to
blackbox.com/go/GSA.

Try our
new product
selectors and
configurators.



CATx/Fiber Cable
KVM Switches/Extenders
Video Extenders
Standalone/Wallmount Cabinets
blackbox.com/go/Configurators.



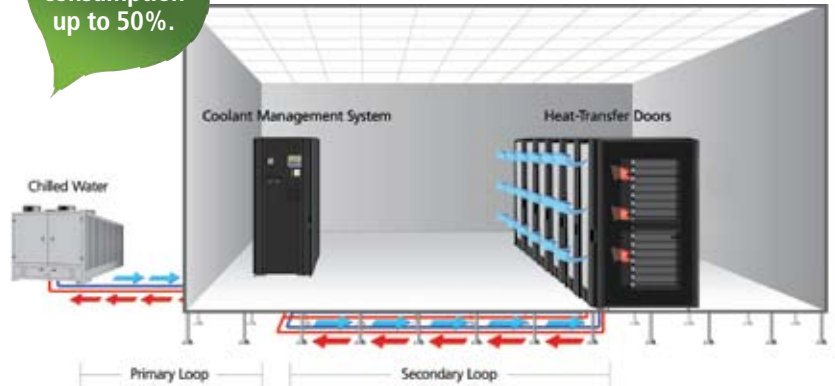
Check out the
configurators on-line
with just a snap of
your smartphone.

Cold Front™ Passive Liquid Cooling

Cut cooling and power costs by up to 50%.

- Coolant Management System intelligently moves water through Heat-Transfer Doors.
- No moving parts, so it operates reliably with virtually no maintenance.
- Supports five times the computing power of air-cooled facilities.
- Doesn't require raised floors or hot/cold aisle configurations.
- Installs on existing cabinets.
- Requires professional installation. For details and quotes, call **888-433-5049**.

Cut energy consumption up to 50%.



Brochure, White Paper, Buyer's Guide, Webinar:
blackbox.com/go/ColdFront

Cold Row™ Rack Cooling

Innovative, economical, scalable data center cooling.

- Designed for seamless integration into new or existing data centers.
- Use in open and contained hot aisle and cold aisle configurations.
- Use as a primary or secondary cooling source.
- Choose from chilled water and direct expansion (air, water, or glycol) models.
- Highest cooling capacities in the industry—up to 75 kW per unit.
- **Learn more at www.blackbox.com/go/ColdRow.**



Elite™ Cold Aisle Containment System

Increase cooling efficiency in your data center.

- Concentrates cool air where it's needed—at the front of equipment.
- Easily added to existing infrastructure to increase cooling efficiency.
- Convenient, professional-looking doors seal cold aisles.
- Works with 42U or 45U Elite Cabinets.
- **Learn more at blackbox.com/go/ColdAisle.**



“Thank you very much for all your help yesterday. It was a rare pleasure and surprise to find an American company that provides the timely service that you did. I will not hesitate to use you again and to recommend Black Box to associates who need timely delivery of critical path communications items.”

Larry Voss, Cobalt International Energy

ClimateCab™

Ideal for communication closets and other locations where cooling infrastructure doesn't exist.

- Cool only the cabinet—not the entire room.
- Install equipment without the need for additional cooling or costly infrastructure.
- Protects equipment against falling dirt; circulating dust, lint, and debris; and dripping or splashing liquids in indoor environments.
- Add a UPS and you have a mini-data center.
- For details and quotes, call **888-433-5049**.
- Learn more at www.blackbox.com/go/ClimateCab.

**Elite™ Custom Cabinets**

Twenty seconds to configure, two days to ship.

- Elite Cabinets can be built to your specifications in two business days or less.
- Constructed of heavy-duty, welded steel.
- Full line of accessories available.
- Guaranteed for life!
- Learn more at www.blackbox.com/go/Elite.



Brochure, Configurator, Cabinet Options:
blackbox.com/go/Elite

Elite Wallmount Cabinets

Organize your rack equipment and cables the wallmount way.

- Choose from multiple sizes, weight capacities up to 300 pounds, NEMA ratings, and more.
- Large openings in the back panel enable you to simply slide in a loaded panel.
- Doors can be reversed to open left or right.
- Guaranteed for life!
- Learn more at www.blackbox.com/go/Elite.



3U opening for accessories or cable access on the top and bottom of cabinet.

Openings on back enable you to insert loaded patch panels without rewiring.

**QuietCab™**

Put networking equipment where you need it—without the noise, space, or cost concerns.

- Quiet and secure, the QuietCab™ is perfect in an office environment.
- Acoustic foam lining reduces audible server and hardware noise by 15 dB to normal office background levels.
- Integrated ventilation fans provide up to 3.6 kW thermal capacity.
- Cabinets look like furniture, and are available in beech, light gray, and walnut laminate.
- Learn more at www.blackbox.com/go/QuietCab.



Configure and select your cabinet on-line in 20 seconds.

Cabinet Configurator:
blackbox.com/go/CabCon

Wallmount Cabinet Selector:
blackbox.com/go/WallCabSel

“I just wanted to tell you how much I appreciate your excellent customer service, great and helpful employees, second- to-none delivery, and excellent on-line callback system! Keep up the great service. Great service is a dying art!”
Chris Dalton, CEO, JDCC, Inc.

Zone 4 Seismic Cabinets and Racks

Server cabinets and racks designed for locations that require seismic ratings.

- Cabinets' performance rating is based on NEBS-Telcordia GR-63-CORE standard vibration test.
- Vented heavy-gauge steel base can be bolted to the floor with seismic-rated fasteners.
- Choose from 40" and 32" deep cabinets; and 2- and 4-post racks.
- Racks meet California Building Code requirements.
- **Learn more at www.blackbox.com/go/Zone4.**



Shock-Isolated Equipment Racks

Protect your servers and AV equipment from harsh conditions.

- Completely shock isolated to protect sensitive electronics.
- Perfect for servers, AV equipment, and storage.
- L-shape rack posts and steel/aluminum frame with EIA 3/8" square holes.
- Hold up to 400 pounds.
- **Learn more at blackbox.com/go/SIRacks.**



2- and 4-Post Premier Aluminum Distribution Racks

Don't put your expensive equipment in a flimsy rack.

- Sturdy, high-quality aluminum racks support up to 1000 pounds.
- Feature standard 19" rails with prethreaded 12-24 EIA holes.
- Self-squaring and self-supporting.
- **Learn more at blackbox.com/go/PremRack.**



Hook and Loop Cable Wraps

Hold cables without pinching or sliding.

- Secure and organize large bundles of cables.
- Half-inch strips come in 6" or 12" lengths.
- Choose from eight colors.
- Fully adjustable and reusable.
- Cut clutter and keep cables neatly tied.
- **Learn more at blackbox.com/go/CableWraps.**



ServSwitch™ Secure KVM Switches

Secure KVM switching just got more secure with EAL2+ and TEMPEST certified switches.

Why ServSwitch Secure KVM Switches?

1. Prevent data leaking between ports and to the outside world.
2. Prevent sensitive data from being stored in the device.
3. Prevent electronic snooping.



- Combat a range of data leakage threats with these ultra-secure switches.
- Safely access servers between secure and non-secure networks from a single keyboard, monitor, and mouse station.
- Switch among as many as four computers operating at different classification levels.
- High port-to-port electrical isolation facilitates data separation (RED/BLACK).
- Permanent hard wiring prevents access from one CPU to others.
- External tamper-evident seals make it easy to spot attempted tampering.
- Certificates of Authentication are available on request.

Secure KVM users: Read this immediately!

If you are using a secure KVM switch to switch between secure and non-secure networks, and you are experiencing any of the following issues, contact Black Box immediately:

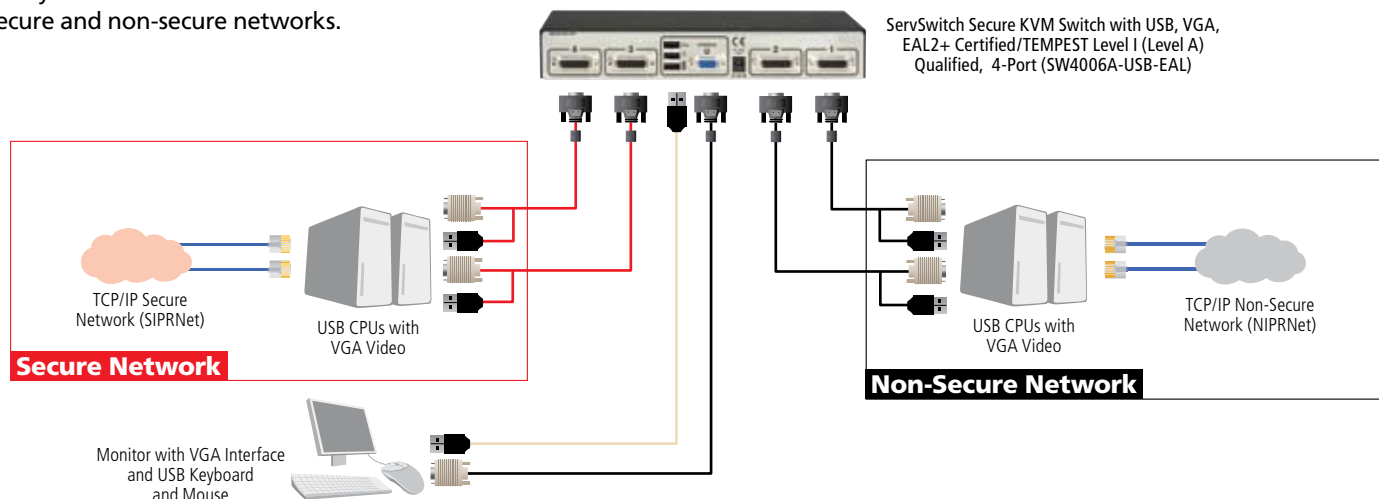
- No video.
- Computer screen freezing up.
- Mouse not responding or feeling "elastic."
- Keyboard doesn't work or locks up over time.
- Keyboard appears to be mismatched.
- Unauthorized Flash drives work when plugged into USB ports.

These issues may not happen every time you turn on your computer, but if they consistently crop up, the problem could be underperforming KVM secure switch technologies.

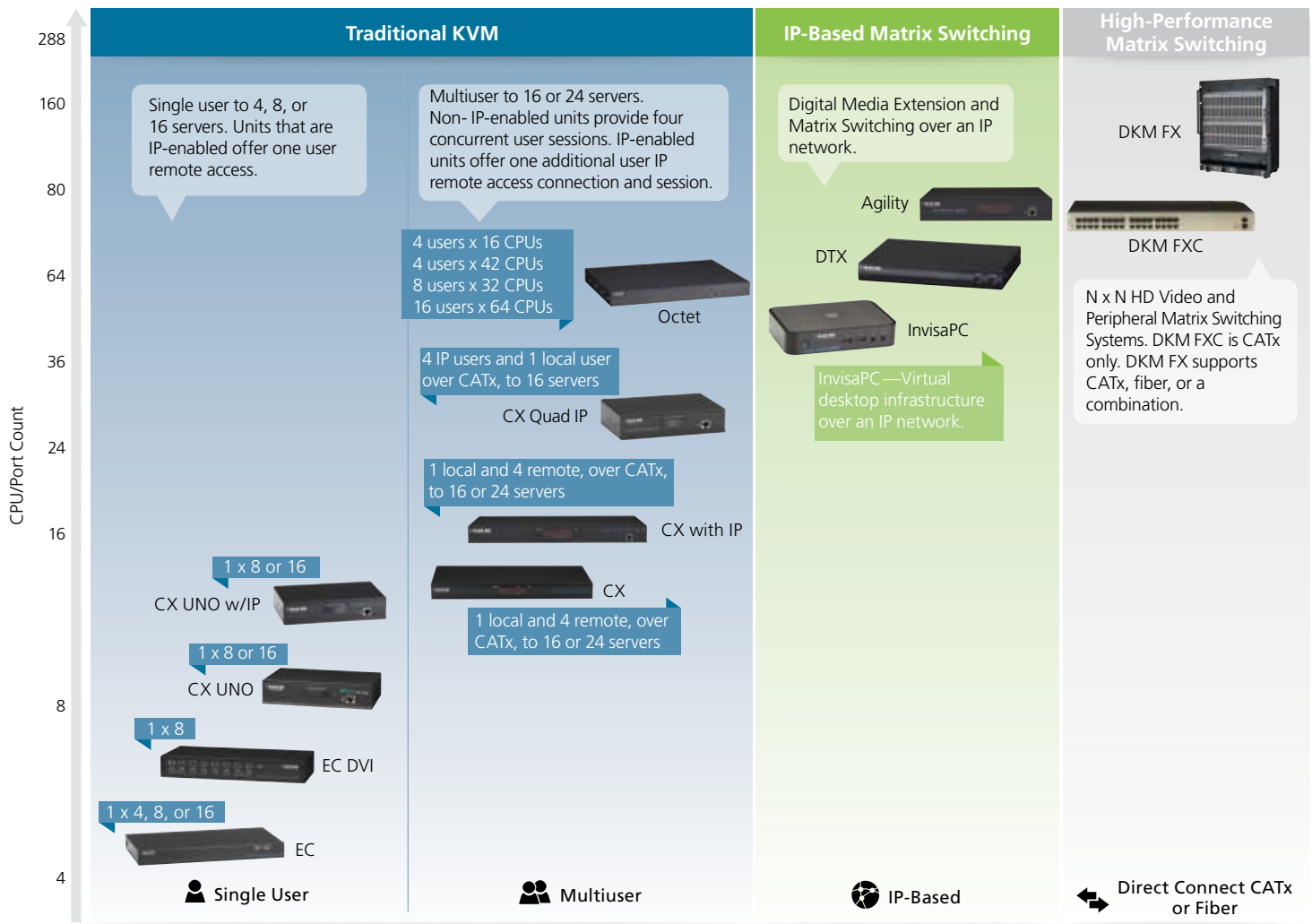


ServSwitch Secure KVM Switches solve these problems with unidirectional signaling channels and other hardware means. Unidirectional keyboard and mouse paths protect against timing analysis attacks and forced malfunction attacks. This counters the threat of data leakage through peripheral memory, and it prevents mouse and cursor lag times. The other problems simply don't occur.

Safely access servers between secure and non-secure networks.



Brochure, Buyer's Guide, Request a Quote or Eval Unit, Talk to our KVM Experts, and Request Certificates at blackbox.com/go/ServSwitchSecure.



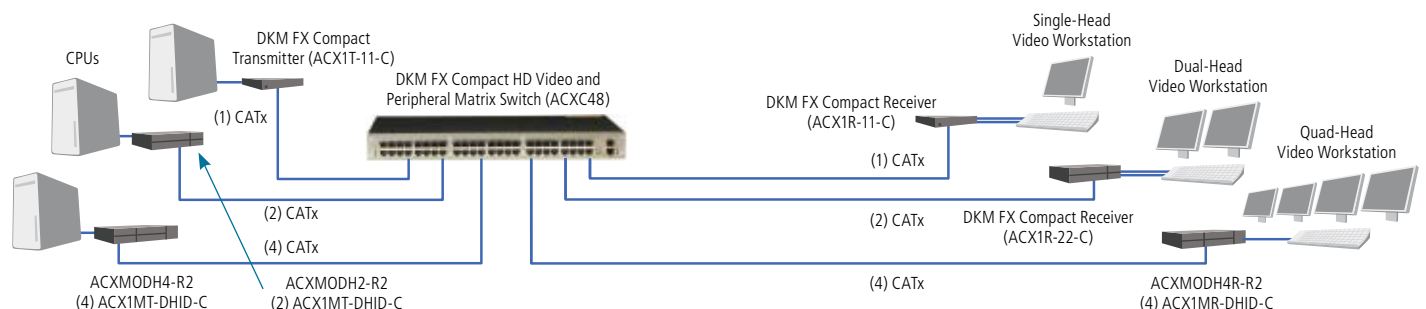
DKM FX Compact HD Video and Peripheral Matrix Switches

Instantaneous switching of HD video in a smaller model for SMBs and space-conscious organizations.

- Use the cost-effective DKM FX Compact switches to establish connections from consoles (monitor, keyboard, mouse, and other peripheral devices) to various sources, such as computers and CPUs.
- RJ-45 CATx ports can be input or output.
- Chassis is 1U for easy mounting in server cabinet and racks.
- Use with DKM FX Modular and Compact extenders (ACX1MT/R series and ACX1T/R series) to extend video, KVM, and USB 2.0 signals.
- Can also be run as a video matrix switch.
- Uses CATx cabling for extension.
- Redundant power supplies included.
- **Learn more at www.blackbox.com/go/DKM-FX.**



48-port DKM FXC Switch (ACXC48)

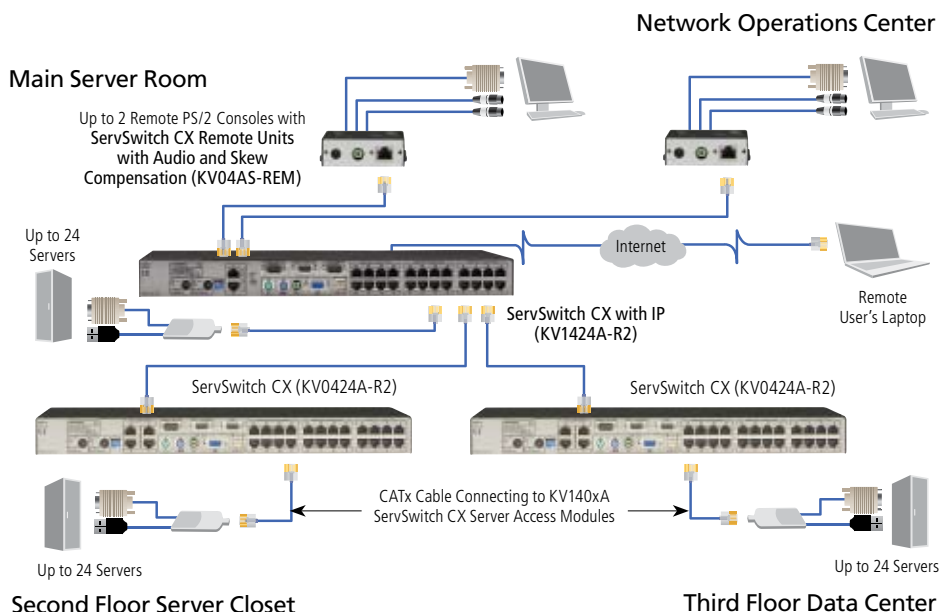


ServSwitch™ CX Quad IP

Connect one local user and up to four remote users—simultaneously.



- 16-port KVM switch with 4 IP sessions.
- IP support enables you to access servers remotely.
- 1600 x 1200 remote resolution with scalable windows.
- Simplify cabling with CAT5, CAT5e, or CAT6 UTP or PS/2 supported computers.
- Cascade switches to control up to 128 servers.
- Work with Outlet-Managed PDUs (blackbox.com/go/OMPDU).
- **See all the CX IP models at blackbox.com/go/CXIP.**



CATx Integrated KVM Tray Modules

Access your KVM tray remotely to manage your servers over the Internet.

- KVM over IP or KVM with extender remote access options.
- Multiplatform support using USB, PS/2, or Sun® compatible SAMs.
- KVMoIP models support VNC and Web browser remote access.
- CATx patch cables ensure neat rack installation.
- Management software included.
- **Learn more at blackbox.com/go/TravsCXIP.**



ServSwitch 4Site Flex

Fluid video performance in all-in-one KVM switches and video processors for monitoring and control.

- Keep track of multiple screens without banks of monitors.
- 4-to-1 KVM switching with smooth, real-time image processing: DVI, VGA, HDMI, HDCP support.
- Ensures short reaction times in mission-critical applications.
- **Learn more at blackbox.com/go/4Site.**



**Find the perfect KVM solution in seconds
with our on-line selectors.**

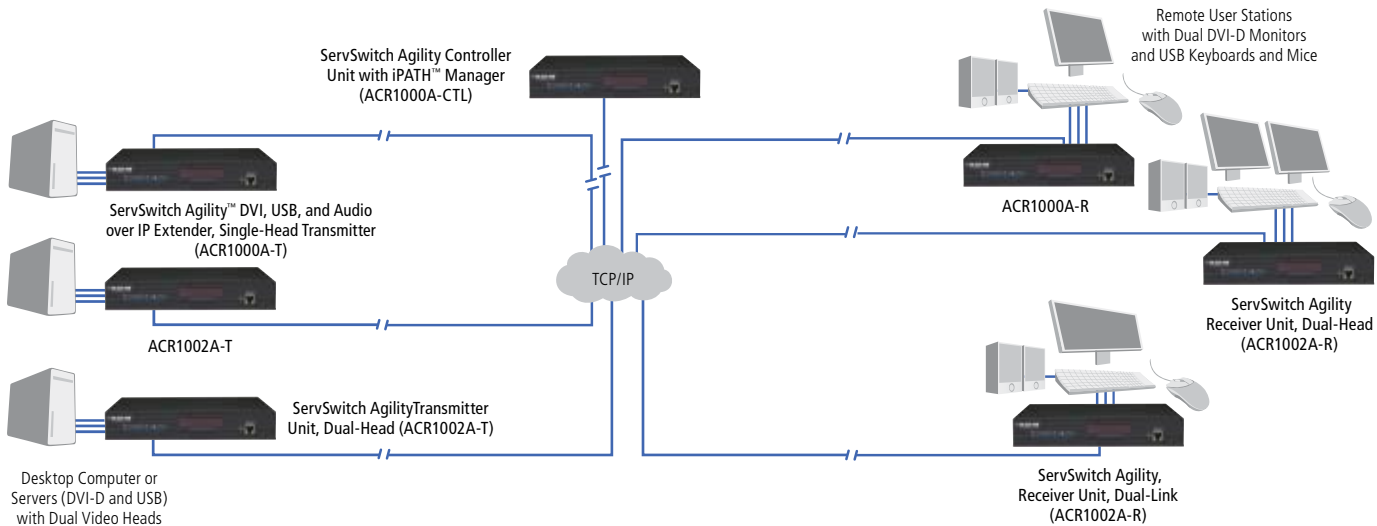
- » KVM Switch Selector: www.blackbox.com/go/KVMSwitchSel
- » KVM Extender Selector: www.blackbox.com/go/KVMExtSel



ServSwitch™ Agility DVI, USB, and Audio KVM Extenders and Matrix Switches over LAN

Get perfect digital video with no loss.

- Pure digital media extension and matrix switching over IP.
- New flexible topology for KVM extension.
- No-loss compression minimizes bandwidth use while maximizing the user experience.
- Configure your network to suit your needs: point-to-point extension, KVM switching, single-target sharing, or multicasting.
- Features keyboard/mouse emulation and emulation for other standard human interface devices (HIDs), such as touchscreens or flash drives.
- Distance is only limited by your network capabilities when you use network switches.
- **Learn more at blackbox.com/go/ServSwitchAgility.**



ServSwitch Wizard IP DXS

Eliminate bottlenecks in mission-critical server administration.
Get non-blocked access from anywhere in the world.

- Powerful and flexible KVM over IP product gives you secure, full non-blocking remote access to any server.
- Direct KVM over IP server management.
- Independent operation gives full control even during bootup, BIOS level, or computer crash states.
- **Learn more at blackbox.com/go/IPDXS.**



ACR101A

USB Laptop Console Crash Cart Adapter

Turn your notebook into a portable server crash cart.
Plug a laptop into the server for quick BIOS-level control.

- Gives you a fast, easy way to log in to a server or computer to troubleshoot or service a system after a crash.
- Handheld adapter plugs into the server on one end and your laptop on the other.
- No drivers to install on the target computer.
- Includes software for viewing server video on your laptop, without having to reboot or change the server in any way.
- Scale the video window as needed and even take a screen snapshot.
- Works with Windows® and Mac® OS X laptops.
- **See them all at blackbox.com/go/KVMCC.**



KVT100A

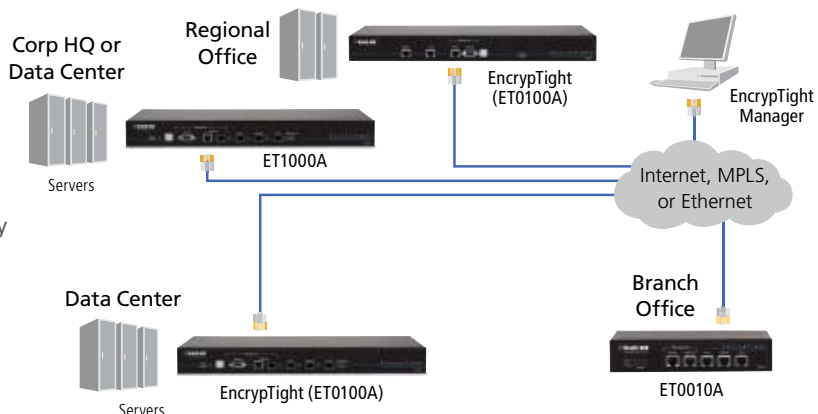
EncryptTight™

Get airtight WAN encryption without wasting time on VPN tunnels.

- Eliminates the need to establish point-to-point VPN tunnels between each pair of remote sites to secure data.
- Every site can establish an instant encrypted connection to every other site without the administrative hassle of setting up a separate tunnel for each pair of sites.
- Scalable and easy to deploy across large WANs.
- Large worldwide WANs can be managed from one central location.
- Helps you comply with HIPAA, HITECH, PCI, or other industry or government data-protection standards.
- Provides transparent Layer 2, 3, and 4 encryption.
- The Layer 4 payload-only encryption option offers many advantages, including the ability to pass encrypted data through NAT devices and compatibility with policy-based routing and load balancing.
- FIPS 140-2 certified.



Brochure, Video, White Paper, Request a Call:
blackbox.com/go/EncryptTight



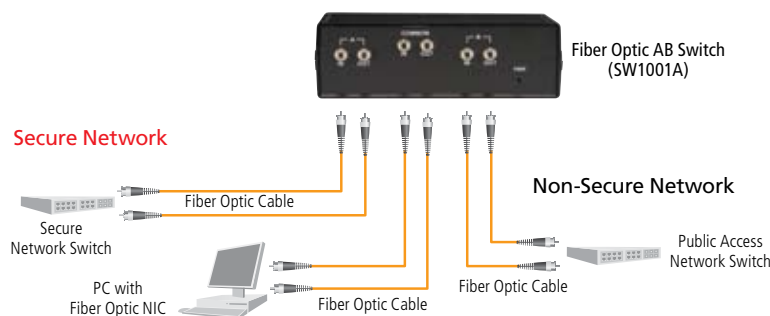
FIPS 140-2
Certified

Secure Latching Fiber Optic Switches

For ultra-secure, critical-circuit switching, use these micro-mirror optical switches.

- Ideal for government, healthcare, and other applications where a private, data-sensitive network connects to a publicly accessible one.
- No optical-to-electrical conversion between connections. The switches' internal mirrors move data between ports optically—technology that's trusted and time tested.
- Switches latch mirror movement mechanically into position and hold it there with no need for electrical power.
- Virtual zero power mode—data passes through the circuits even when power is lost.
- Operate transparently to signal rates, formats, and wavelengths, and don't require an upgrade when your data protocols change or speeds increase.
- Work with 62.5-/125-micron multimode fiber cabling.
- **Learn more at blackbox.com/go/FiberSwitches.**

NOTE: Non-latching switches are available as well as switches for serial control and single-mode fiber. To order, call our FREE Tech Support.



I wanted to let you know that I really enjoyed dealing with your company. My call could have been recorded as an example of how to treat a customer. You were courteous and extremely helpful. There were no blind transfers and you answered all my questions. Thanks for being so great to deal with."

Keith Hathcock, SVP, Community Operations, Inc.

Hardened Media Converter Switches

They work—on the factory floor and in the desert.

- Switch and convert 10/-100-Mbps copper to 100-Mbps fiber in industrial environments.
- Switches withstand the dirt, dampness, and temperature fluctuations that happen in the harshest environments—inside and out.
- Function as both a media converter and a switch.
- Choose from standard, hardened, and extreme models.



Case Study, White Paper:
blackbox.com/go/ToughMCSwitch



LBH100A-H-ST

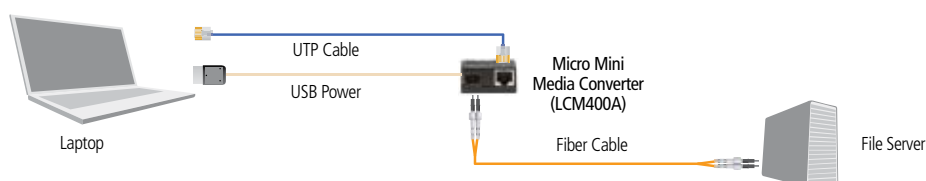
Micro Mini Media Converters

Finally you can take fiber to the desktop easily and affordably.

- Smallest media converters available; tuck them unobtrusively behind a PC.
- Ultra compact; they weigh less than 2.5 ounces.
- Ideal for mobile and field-deployed laptop applications.
- USB-powered for portability.
- Plug-and-play with autonegotiation.
- Small Form Pluggable (SFP) transceivers or fixed-fiber connectors (SC, ST).
- Multimode and single-mode options.
- **Learn more at blackbox.com/go/MMConverter.**



LCM400A



802.3at PoE Gigabit Injector

Put IT where you need it, without installing power.

- Power VoIP phones, security system cameras, wireless access points, and other PoE equipment.
- Avoid the cost and hassle of installing AC power at remote cameras or door scanners.
- Get Gigabit speed plus power for high-wattage devices.
- Save money. No need to buy a PoE switch.
- Literally plug-and-play installation.



LPJ024A-FM



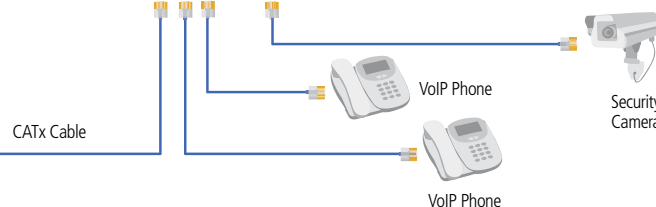
802.3at PoE Gigabit Injector (LPJ024A-FM)



White Paper, Brochure, Buyer's Guide,
Black Box Explains: blackbox.com/go/PoE



Wireless Antenna



Advanced Console Servers

Save time—get 24/7, continuous, reliable access to console ports on remote devices.

- Federal Information Processing Standard (FIPS) 140-2 validated module for enhanced security.
- Protects data with Secure Shell (SSH) encryption, SSH tunneled serial bridging, SSH tunneling for TCP/UDP, IP packet filtering, and more.
- Dual Ethernet ports with bonding ensure high availability.
- Dual universal AC input for redundant backup power.
- Accessible in-band with a Web browser, out-of-band via modem, or directly through the local console port.
- Supports IPMI, ILO, LOM, DRAC, and RSA.
- **See them all at blackbox.com/go/AdvCS.**

FIPS 140-2
validated
module



Top: LES1216A, front view;
bottom: LES1216A, rear view

Outlet-Managed PDUs

Cut down on visits to remote sites and save on power costs, too.

- Make your job easier. Remotely switch and manage power for one network device or multiple devices.
- Get complete power control: remote and timed individual outlet switching, auto on/off/reboot, load shed switching, outlet sequencing, and more.
- Reduce energy costs with scheduled shutdowns during off-peak hours.
- Switch power on/off for individual network devices or for groups of equipment.
- Minimize risk. Monitor equipment power and get auto alerts to changes.
- Generate reports with detailed records of current and power consumption.



More Details, Buyer's Guide, Talk to a Specialist:
blackbox.com/go/OMPDU



MPSH8-S20-120V

Metered Vertical PDU

Always know the AC current and when the threshold has been reached with this space-saving PDU.

- Space-saving PDU measures and displays AC current.
- Provides 24 NEMA 5-20R outlets on a strip that mounts to the vertical rails in your cabinet or rack.
- Three-digit LED display shows current draw.
- Alarm notifies you when current threshold has been reached.
- See it at blackbox.com/go/MVPDU.

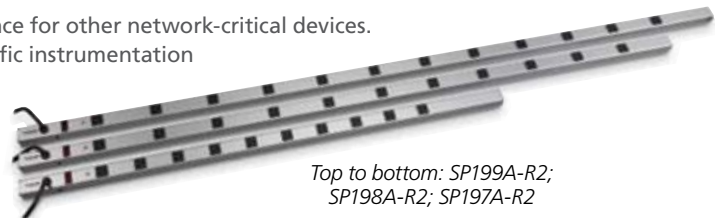


PDUMV24-S20-120V

Vertical AC Power Strips with and without Surge Protection

Get more space—and surge protection if you want it.

- Choose from power strips with 8 to 24 outlets.
- Mount vertically in your cabinet or rack, leaving valuable space for other network-critical devices.
- Great for data center racks, blade server applications, scientific instrumentation cabinets, and more.
- Choose from models with different amp capacities.
- See them at blackbox.com/go/VertPS.



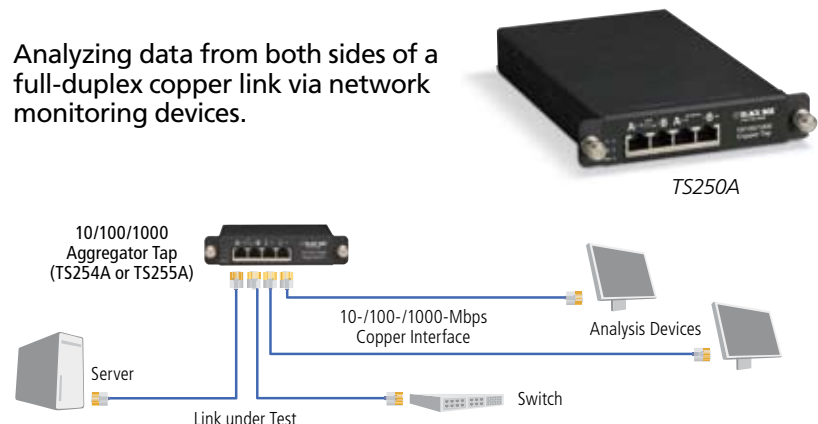
Top to bottom: SP199A-R2;
SP198A-R2; SP197A-R2

10/100/1000 Copper Tap and Aggregators

Monitor your network without any disruption to your data flow.

- Get an accurate view of your copper network.
- Offer complete network visibility regardless of traffic levels.
- The Tap provides a complete copy of data from full-duplex network links.
- Monitor transmit and receive data streams simultaneously with the Aggregators.
- See them at blackbox.com/go/Taps.

Analyzing data from both sides of a full-duplex copper link via network monitoring devices.



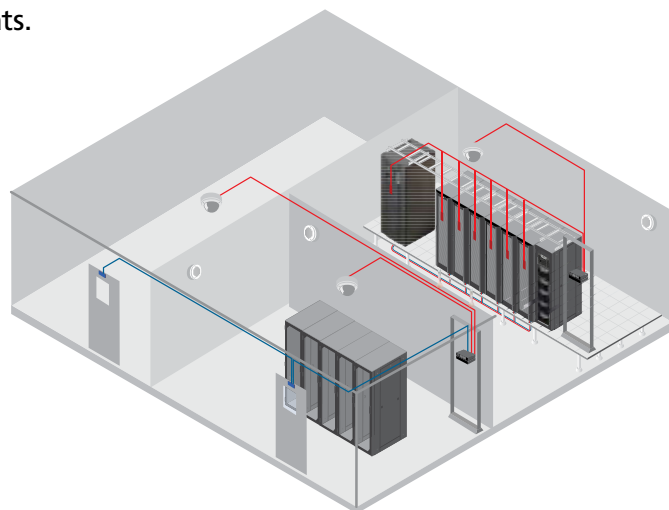
AlertWerks™ Environmental Monitoring System

Guard mission-critical IT equipment against physical threats.

- Complete environmental monitoring over any IP network—including the Internet.
- Monitor water, humidity, airflow, temperature extremes, motion, smoke and fire, AC voltage, theft and tampering, and more.
- System consists of AlertWerks ServSensor Hubs and AlertWerks Intelligent Sensors.



more info AlertWerks Sensors, Video, Brochure, Expansion Modules, Cameras:
blackbox.com/go/AlertWerks



LanScopePro Copper and Fiber Network Analyzer

Advanced Gigabit network and cable and fiber tester provides expert help at an affordable price.

- Analyze and troubleshoot networks from the cabling to the packet.
- Quickly change interface modules to instantly connect to single-mode, multimode, and bidirectional fiber with data rates up to 1.25 Gbps, as well as 10/100/1000BASE-T devices.
- Functions include: network discovery, packet capture, transparent monitoring, protocols, in-use segment performance, and more.
- See it at blackbox.com/go/LanScopePro.



LANSCOPEPRO-SM

Fiber Optic Test Kits

The right equipment: basic for occasional testing, deluxe for advanced field testing.

- Maintain and optimize fiber networks with a single test kit.
- Kits include power meter, light source, fiber inspection scope. Some also have a visual fault locator.
- Kits are available for single-mode, multimode, and a combination of single-mode and multimode fiber.
- See them at blackbox.com/go/FOTK.



FOTK-SM

more info White Papers: blackbox.com/go/WP
– Fiber Optic Technology
– Testing Today's High-Speed Multimode Fiber Infrastructure
– Improve the Quality of Fiber Installations with Extended Fiber
– Certification Light Sources and Power Meters
Buyer's Guides: blackbox.com/go/BG

CAT5e and EZ-RJPRO Termination Kits

Crimp and trim EZ-RJ45 connectors in one step.

- Use the EZ-RJPRO High-Density Crimp Tool with EZ-RJ45 CAT5e Modular Plugs for an easy modular connector system.
- Get a uniform crimp each time with the ratcheted, straight-action motion.
- Kits include the EZ Check Cable Tester (EZCT), an affordable, rugged tester for RJ-45 CAT5, CAT5e, or CAT6 and coax cables.
- The included Multi Strip (FT231A) is an innovative tool for stripping solid and twisted-pair cable. It removes a wide variety of jacket materials.
- Kits include 60 CAT5e (CAT5EEZ-15PAK) EZ-RJ45 plugs. CAT6 plugs are also available.
- All components are available separately.
- See them at blackbox.com/go/TerminationKits.



FT1200AKIT-R2

CAT5e/6 Termination Kits

Do-it-yourselfers: Order these termination kits for big savings.

- Quickly terminate and test CAT5e/6 cable.
- The EZ Check Cable Tester (EZCT) gives accurate pass/fail results in one second.
- Tester performs complete TIA/EIA-568 testing for continuity, opens/shorts, reversals, and split pairs.
- Kits contain a Universal Crimp Tool (FT046A) that strips, cuts, and terminates, plus a modular crimp die.
- The Multi-Strip Cable Stripper (FT231A) slits and strips, and features a tension loop as well as an adjustable screw for controlling blade penetration.
- Kits contain (25) CAT6 or CAT5e RJ-45 Plugs.
- See them at blackbox.com/go/TerminationKits.



FT490A-R3



How to Terminate and Test Copper Cable Video: blackbox.com/go/Videos
Buyer's Guides: blackbox.com/go/BG
Proven Techniques and Best Practices for Managing Infrastructure Changes
White Paper: blackbox.com/go/WP

Data Pro Kit

The complete kit for assembling and testing UTP/STP cables.

- Get everything you need to cut, strip, terminate and test cables and modular plug systems. Includes the LAN Pro (TD050A) for fast, convenient testing of twisted-pair and coax wiring.
- Tester quickly tests for shorts, crossed wires, and split pairs and offers one-button pass/fail testing.
- Kit contains a crimp tool, five die sets, a cable cutter/stripper, blades, punchdown tool, and a carrying case.
- See the kit at blackbox.com/go/DataPro.



FT115A

iCOMPEL™ Digital Signage

Deliver the right message at the right time.

- Improve communications, inform, educate, notify, alert.
- Create welcome messaging and wayfinding screens; share information and announcements.
- Touchscreen interaction.
- We'll help you choose the right platform. Simply talk to one of our Digital Signage Success Managers at 800-355-8003.
- Learn more at www.blackbox.com/go/iCOMPEL.



Digital signage can help everyone improve communications.

- Government buildings
- Military installations
- Convention centers
- Public buildings and spaces
- University systems or school districts
- Hospitals and healthcare facilities
- Public transportation hubs
- Trade shows

“ Many of the units we looked at were complicated to use. But iCOMPEL is very easy to hook up, with very intuitive software that's very easy to learn. **”**

Chuck Fickter, Marketing Information Manager, Joy Mining

“ For the money, there are no other solutions as comprehensive as iCOMPEL. **”**

Terry McCloud, VP Sales and Marketing, Sure Light Sign Company

Black Box offers digital signage to fit every size organization.

- MediaFlyer EXPRESS hosted digital signage is ideal for organizations with limited IT resources.
- Can use iCOMPEL as a stand alone appliance or connect it to a network to publish and subscribe.
- iCOMPEL EDS delivers scalable digital signage for global enterprises.



Webinars, White Papers, Demos, Brochures, Videos, Multiple Case Studies, E-catalog: blackbox.com/go/iCOMPEL

MediaCento™ IPX Multicast

Multicast HD video over an IP network to distant screens.

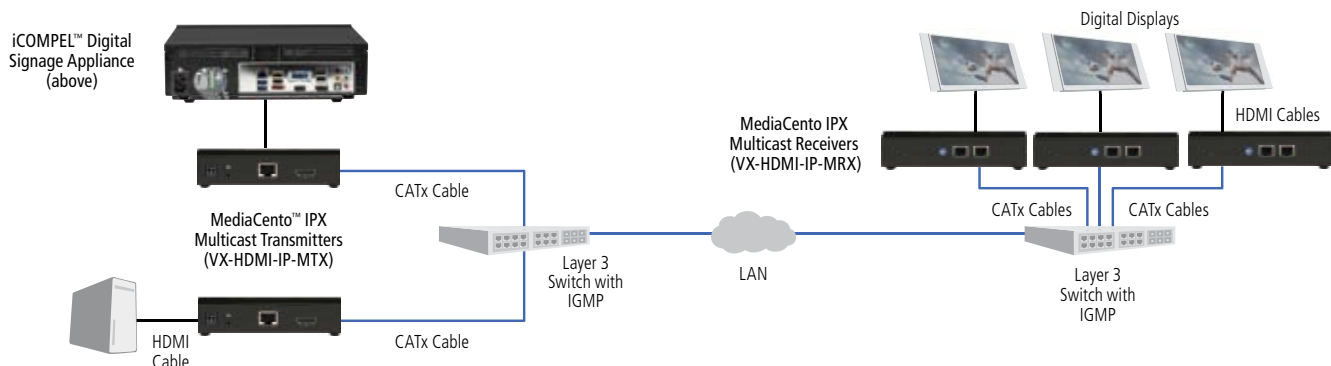
- A digital solution for the future at an analog price!
- Transmits HD video and audio over an Ethernet network to unlimited screens.
- Uses existing standards-based Ethernet technology and TCP/IP protocols.
- Provides very high image quality with visually lossless compression.
- Virtually no distance limitations. Can go as far as your network reaches.
- Learn more at www.blackbox.com/go/MIPX.

VX-HDMI-IP-MRX



MediaCento IPX is great for:

- Digital signage applications with screens in different buildings.
- Streaming video to classrooms in schools.
- Multicasting video in command and control room setups.
- Distributing high-quality medical imaging video across a hospital campus.
- Video sharing and training.



Video Matrix Switching Solutions

Get up to 8 x 8 DVI, HDMI, and VGA switching.

- Ideal for command and control centers, conference rooms, auditoriums, broadcast centers, healthcare, multimedia, R&D applications, and more.
- Systems can be simple using 4x1 models or complex using 8x8 models with built-in extension capabilities and control.
- Choose from analog and digital; VGA, DVI, HDMI, audio, and more.
- Switch with simple front-panel push buttons, a remote control, or from your PC.
- Integrate easily with third-party media control systems, such as Creston™ or AMX™.
- **Learn more at www.blackbox.com/go/AV.**



VSV-HDMI8X8-B

Wireless Video Presentation System III

Make presentations wirelessly from a laptop.

- Enables up to 254 laptop users to wirelessly project video from where they sit—up to 300 feet (91.4 m) away.
- The simple way to improve collaboration in large meeting rooms.
- Includes Plug & Show USB token for streamlined setup for meeting participants.
- 4-to-1 split-screen function for enhanced meeting collaboration and sharing.
- Perfect for conference rooms or classrooms with projectors or LCDs with a VGA input.
- **Learn more at www.blackbox.com/go/VPS.**



AC1132A

Mini Extender Kit for DVI-D and Stereo Audio over Fiber

Send DVI and stereo signals across campus—with no signal loss.

- Extends Full HD video and 24-bit stereo audio up to 1.5 kilometers over a single strand of fiber—with no signal loss.
- Very compact, in-line units. No need to make room for external boxes.
- Great for reaching digital signage in public information systems.
- EDID programmable for use with the latest screens.
- Lower power consumption.
- **Learn more at www.blackbox.com/go/AV.**



AVX-DVI-FO-MINI



Power 3.5-mm audio jack LC connector



DVI-D male connector

Multi-Format AV Scaler with DisplayPort

Save money and simplify your AV routing. One box does the job of many.

- Convert and scale multiple types of video and audio for digital HDMI or VGA output.
- Eliminate the need to buy a bunch of devices to convert, scale, and switch analog video and audio signals for digital displays.
- Scales analog VGA, Composite, Component, S-Video, DVI, DisplayPort, and HDMI.
- Ideal for digital signage, broadcasting, AV distribution, and corporate meeting rooms.
- **Learn more at www.blackbox.com/go/AV.**



AVSC-7DA-HDMI

Guaranteed-for-life,

Copper Solutions

CAT6 ETL-Verified Channel Solution

ETL Verified four times a year.



- Channel and component level performance.
- Channel includes solid bulk and stranded patch cables, patch panels, jacks, and connecting blocks.
- **Learn more at blackbox.com/go/Category6.**



CAT6A UTP Channel Solution

Use for new VoIP, SAN, and 10-GbE networks.



- Supports PoE and PoE+.
- Ideal for WAP and security applications.
- Engineered to reduce ANEXT.
- Patch cable is stranded; bulk cable is solid.
- **Learn more at blackbox.com/go/6A.**

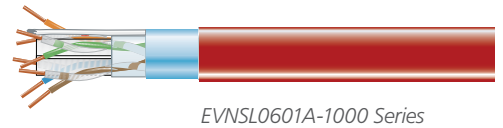


CAT6 F/UTP Channel Solution

Ideal for retrofitting existing data centers.



- Solid bulk and stranded patch cable are double shielded.
- 24-port panel and jack are also shielded.
- More shielded cable options are available on-line.
- **Learn more at blackbox.com/go/6FUTP.**

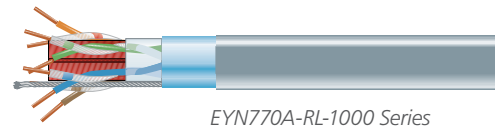


CAT6A FTP Channel Solution

Get channel performance beyond CAT6A.



- Virtually eliminates ANEXT.
- Solid bulk cable features foil shield.
- Stranded patch cable has aluminum/Mylar® tape and a tinned copper braid.
- **Learn more at blackbox.com/go/6A.**



TAA and Security Solutions

TAA CAT6/6A Lockable Patch Cables and Port Locks

Get premium performance with optional lockability.



- Use for all your network connections.
- Add security when you need to—without buying new cables.
- Insert optional Locking Pin into the patented locking boot to secure ports.
- Choose from a full line of CAT6/6A patch cables.
- Port Locks secure unused panel and equipment ports.
- **Download the brochure at blackbox.com/GigaTrue3.**



CAT6 C6PC80 Series



CAT6A C6APC80 Series



PL-AB-XX-25PAK

Need OM4 or a custom configuration?

If you're looking for OM4 patch cords or specialized assemblies, just ask. Our team of technical experts is on-call 24 hours a day to answer questions and help you get exactly what you need. Best of all, our

pre-sales engineering is absolutely free, whether you buy or not. For more information, contact Tech Support at **724-746-5500** or go to **blackbox.com/go/Customs**.

end-to-end channels.

Fiber Solutions

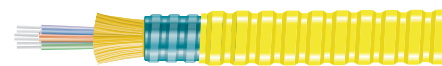
Single-Mode Fiber

With infinite bandwidth, go to 10-GbE and beyond.

- Ideal for backbone and campus connections.
- Save money and order Distribution-Style cable cut to the exact lengths you need.
- Run the plenum-jacketed Aluminum Interlocking Armored cable anywhere in your building—no ducts required.
- The Armored Loose-Tube Outside-Plant cable features steel armor, Kevlar® strength members, and a medium-density PVC jacket.
- Use Loose-Tube Outside-Plant cable with an outdoor-rated MDPE jacket to go from building to building.
- **Learn more at blackbox.com/go/EverythingFiber.**



EXPIASM12A



EXNSM006CMR



EXN5080A



EXN5080NA

Laser-Optimized OM3 10-GbE 50-Micron Fiber

The right choice for SANs and 10-GbE.

- Ideal for backbone and campus connections.
- Save money and order Distribution-Style cable cut to the exact lengths you need.
- Run the plenum-jacketed Aluminum Interlocking Armored cable anywhere in your building—no ducts required.
- Choose from bulk, armored bulk, and patch cable.
- **Learn more at blackbox.com/go/EverythingFiber.**



EXPIA10G12A



EXP10G006A

MPO OM3 10-GbE Cassettes and Patch Cable

Add 10-GbE modular connectivity to the data center.

- Break out one 12-fiber MPO cable into six duplex SC or LC connectors.
- Cassettes fit all the Black Box fiber enclosures and panels.
- Cable provides 12 strands of OM3 fiber in one cable.
- **For more info, go to blackbox.com/go/MPOFiber.**



MTPCS-LC-10G

MTPCS-SC-10G

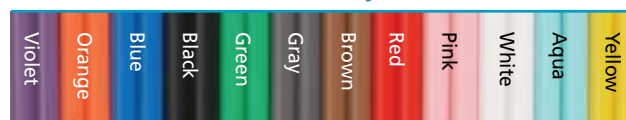


Multicolor Fiber Patch Cable

Move over orange, yellow, and aqua. Color-code applications and departments.

- 12 different colors; 13 lengths; ST, SC, LC, and MT-RJ connectors.
- Single-mode; multimode 10-GbE OM3, 50-micron OM2, and 62.5-micron OM1.
- **See them all at blackbox.com/go/ColorFiber.**

Choose from as many as 12 colors!



Fiber Enclosures

Enclosures, shelves, and panels for all applications.

- Limited rack space? 1U enclosures solve the problem.
- NEMA 4 panels protect terminations in damp environments.
- Other options include low-profile cabinets, pre-loaded panels, and economy panels.
- **See them all at blackbox.com/go/FiberPanels.**



JPM407A-R5

Buyer beware: If the price seems too good to be true, it is.

Counterfeit and cheap, untested cable puts you at risk.

When it comes to safety, performance, and liability, cheap cable is no bargain.

When you see CATx and fiber cable priced significantly lower than Black Box® Cable (or other name brands), put up a red flag. The cable is probably counterfeit or very cheaply made, even if it sports a brand name, UL® number, or ETL logo. It's estimated that as much as 20% of the cable on the market is unsafe, unapproved, or counterfeit. If you're planning to purchase cable, you need to know how to protect your team, organization, network, and building—literally. When it comes to cable, you really do get what you pay for.

Can you afford to risk it?

Substandard cable is risky every way you look at it. The subject is extremely serious because of public safety and liability issues concerning fire and network performance.

Fire: Substandard bulk and patch cables fail flame and smoke tests at alarmingly high levels—usually in the range of twice the allowable limit. What if the cable you bought causes a fire or accident where people are hurt or killed? Is that a price you're willing to pay?

Liabilities: In addition, if you're a contractor and install counterfeit cable, either knowingly or unknowingly, you can face civil and criminal liabilities, and significant monetary damages.

Network performance: Don't count on it! Substandard cable is often made of copper-clad aluminum, and the twists aren't done to spec.

Bulk cable: Look at the cable price and weight. If both seem light, the cable is substandard. Many counterfeit cables are made with copper-clad aluminum, which will weigh much less than straight copper. Also, check the printing, legend, jacket, and construction. Are the conductors straight or oddly "twisty"? You can also verify legitimate cables on the UL® and ETL Web sites.

Patch cable: Yes, inferior patch cable is flooding the market and it's dangerous. Bad patch cable can ruin expensive electronics, invalidate warranties, cause poor network performance, and lead to a loss in productivity while techs try to figure out where the problem lies. Substandard patch cables are notorious for having fake or substandard contacts, odorous jackets, cracked/flammable plugs, and pinched boots.



Copper cladding*
Aluminum conductors

Cable Prices*		
PVC Patch, 3 ft., Snagless Boots	CAT5e	CAT6
Suspect Cable	\$0.85	\$1.10
Legitimate Black Box Cable	\$5.95	\$9.45
PVC Bulk, 1000 ft.		
Suspect Cable	\$76.00	\$105.00
Legitimate Black Box Cable	\$104.95	\$149.95
Plenum Bulk, 1000 ft.		
Suspect Cable	\$180.00	\$284.95
Legitimate Black Box Cable	\$229.95	\$379.95

* Prices as of February 2012

More Copper = Better Performance: Cable Weight (1000 ft.)		
	CAT5e	CAT6
Non-Compliant Cable	14 lb.	20 lb.
Typical Compliant Cable	21 lb.	27 lb.
Black Box Cable	23 lb.	30 lb.



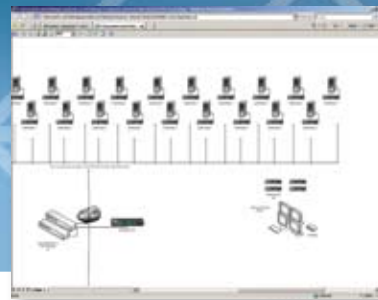
Learn more at blackbox.com/go/Counterfeit

White paper: Nine Ways to Spot Counterfeit Cable
Flyer: The Risks of Counterfeit Cable
Video: Buyer Beware: Counterfeit Cable
Inside the Box Blog: <http://boboxblog.wordpress.com/>

* Photo courtesy of the Fiber Optic Association.

Make network and data center planning easier with Black Box Visio® stencils.

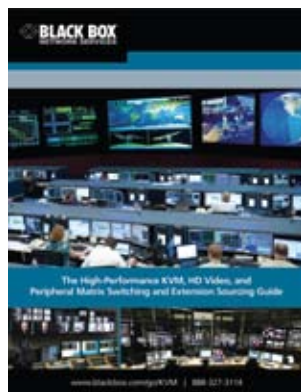
» Download what you need at blackbox.com/go/Stencils.



Black Box Sourcing and Design Guides



AV, Multimedia, and
Digital Signage



High-Performance KVM,
HD Video, & Peripheral Matrix
Switching and Extension

Want more info? Visit blackbox.com/go/Resources to see our entire library.

Black Box Explains Tutorials

Learn what technologies are and how they work.

Buyer's Guides

Comparison charts to help you find exactly what you need.

Case Studies

See how Black Box products solved real-world problems.

E-catalogs

Link to the Big Book and all our specialty catalogs.

Configurators and Selectors

Quickly find what you need with these on-line tools.

Digital Signage Microsite

Learn how to put digital signage to work for you.

Drivers, Firmware, and Software

Download them all right here.

Glossaries

Not sure what a particular term means? Look it up here.

Guide to Structured Cabling

Get an overview of the standards.

PDF Drawings

Download schematics right here.

Product Brochures, Manuals, and Data Sheets

Find all the product information you want.

ServSwitch Central™ Microsite

Learn more about how to put KVM switches to work for you.

Videos

Watch demos, webinars, how-to's, and much more.

White Papers

Learn more about hot topics and technologies.

Now it's even easier
to find the solution
you need—fast.
Product Configurators
and Selectors:
[blackbox.com/go/
Configurators](http://blackbox.com/go/Configurators)



CATx Cable Selector

Fiber Cable Selector

Custom Cable and Adapter Configurator

KVM Extender Selector

KVM Switch Selector

Video Extender Selector

Cabinet Configurator

Wallmount Cabinet Selector





Complete, Customized Data Center Solutions

From hot spots to server rooms to data centers of all sizes.

Optimize your data center to improve productivity, streamline operations, reduce costs, and increase performance. Whether you have a couple of racks, a large data center, or anything in between, Black Box will recommend the right solution for your situation.



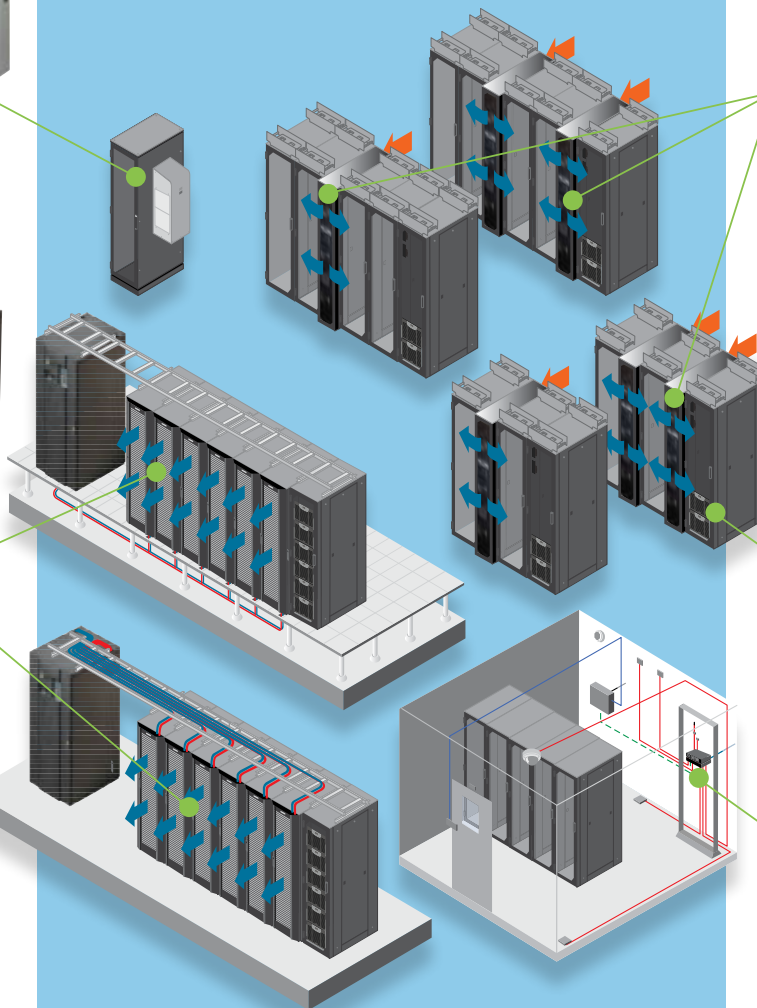
ClimateCab™
Climate-Controlled
Cabinets



Cold Front™
Liquid Cooling



Elite™ Cabinets
with Containment
Doors and Chimneys



Cold Row™
Rack Cooling



UPS



AlertWerks™
Remote Monitoring



**Outlet-Managed
PDUs**

FREE Thermal Analysis
FREE 24x7 Technical Support

For a free white paper and webinar on localized cooling solutions, visit BlackBox.com/go/DataCenter.

Extreme and Hardened PoE PSE Switches

**Put IT where you need it—
even outdoors—without
installing power.**



Power over Ethernet (PoE) solutions.

With PoE, you can power low-voltage devices and network equipment in extreme—even outdoor—environments. It gives you the ability to extend your network to remote locations, industrial environments, and anywhere you don't have power installed.

PoE works well for video surveillance, access control, building management, traffic signals, wireless access points, video kiosks, smart signs, and information systems.

Save money and time with PoE.

Because you don't have to install power, PoE can save you a lot of money and time. For simple indoor links, the savings could be \$250–\$500 or more depending on factors such as location, distance from the AC circuit, and local safety codes. In harsh or outdoor environments, the savings could be anywhere from \$750–\$1500 or more. Add in the time savings and the benefits are substantial.

Hardened switches for extreme environments.

Use Extreme and Hardened Edge PoE PSE (Power Sourcing Equipment) Switches to power remote devices. The switches can even be used outdoors with protection from rainfall and in temperatures ranging from -40 to +167° F (-40 to +75° C).

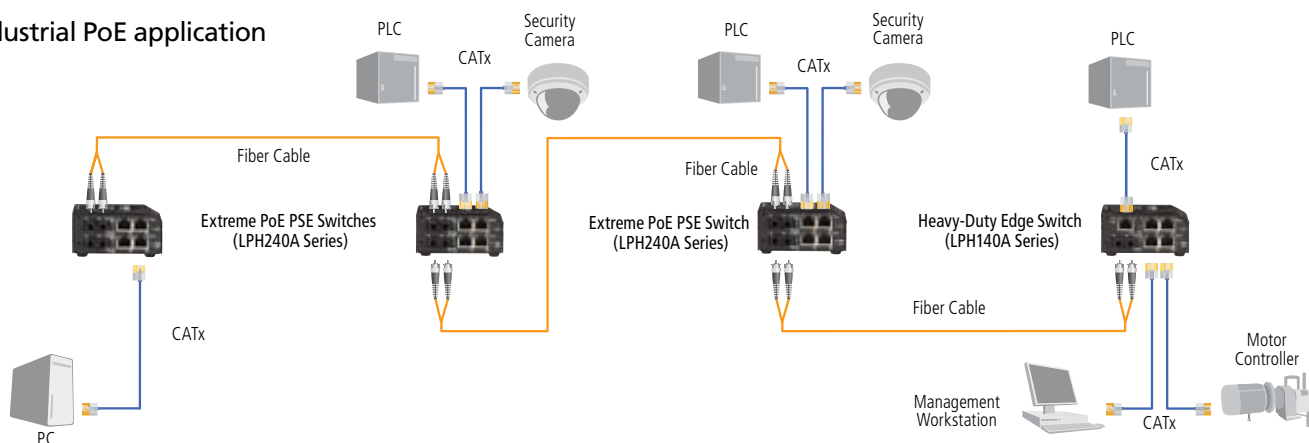
Learn more at blackbox.com/go/PoE.

Black Box offers a variety of tutorials and an extensive line of PoE switches, converters, injectors, and more.

- White paper
- Brochure
- Video
- Black Box Explains tutorial
- PoE products



Industrial PoE application



**Adding PoE to your network is easy. Talk to a networking expert at
888-245-6215 or go to blackbox.com/go/PoE.**

Change Service Requested.

PRSR STD
U.S. POSTAGE
PAID
Black Box
Corporation

When ordering, please reference **GV8**.

Attention: Purchaser of Computer Equipment and Supplies

Mailroom Supervisor: Our customer at your location has requested this catalog. However, if you cannot deliver it as addressed, please mark appropriately, note any address correction, and return to the post office at no charge so that we may forward properly. Or call us toll free at **877-877-2269** to update the address.

—Thank you for helping us serve your business more efficiently.

Are you protected?

The NIAP protection profile is changing. Is your secure desktop KVM switch providing the isolation required in RED/BLACK arenas?

Call us to find out the latest developments.
724-746-5500



Extreme and Hardened PoE Power-Sourcing Equipment (PSE) Switches

GSA Information

Contract #: GS-35F-0158J
Exp: 12/17/13
Cage Code: 59951
Fed ID: 25-1272662
DUNS: 082254871

For research, quotes, and orders:

Call our Government Accounts team at 724-873-6693

Technical questions?

Contact us 24/7 for FREE application engineering support, to learn more, to schedule a demo, or to place an order. Call, click, or chat: 724-746-5500 or blackbox.com/go/TS.

All GSA
items ship
FREE!