

Black Box USB laptop console — turn your laptop into an instant USB crash cart for direct server access anytime, even at the bios level

Introduction

The Black Box KVT100A USB Laptop Console Crash Cart Adapter replaces the bulky, cable-laden crash carts traditionally rolled into server rooms for emergency maintenance. In their place, it delivers a compact, handheld adapter that transforms any Windows® or Mac® laptop into a fully functional KVM console giving IT administrators immediate, BIOS-level access to any server or computer equipped with USB and VGA/DVI-Analog video output.

Using patented real-time video compression technology, the KVT100A streams the target server's live video over high-speed USB (480 Mbps) directly into a dedicated application window on your laptop, while simultaneously emulating a USB keyboard and mouse for full interactive control. Because all software resides on the laptop, nothing needs to be installed, rebooted, or modified on the target server. The adapter can even be hot-plugged into a running system without disruption. Fully bus-powered and requiring no external power supply. The KVT100A slips into any IT service bag and is ready the moment it's needed, whether the server is healthy, frozen at BIOS, or completely unresponsive.

Application

- Transportation (Air Traffic/Rail/Ports)
- Government & Defense Command Centers
- Broadcast & Media Control Rooms
- Healthcare Operations Centers
- Utilities & Energy Control Rooms
- Manufacturing & Industrial Control Centers

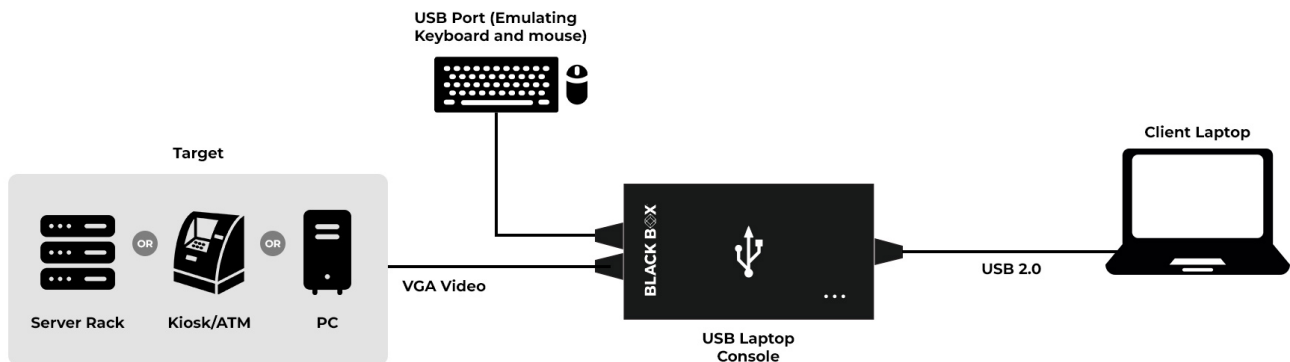
Product Image



Key Features

- **Transforms a laptop into a portable server console** for systems with USB and VGA/DVI-analog video output
- **Works even when the server is in BIOS or otherwise damaged**, enabling access during critical recovery scenarios.
- **No software installation required on the target server**, reducing deployment complexity and preserving server integrity.
- **Real-time video compression and scaling** ensure the full video image remains visible on the laptop screen with no scroll bars.
- **High-Resolution Video Support** — Delivers crisp video up to 1920 x 1200 @ 60 Hz and 1600 x 1200 @ 75 Hz, supporting all standard VESA video modes.
- **USB keyboard and mouse emulation** allow full interaction with the connected host as if a local console were attached
- **Fully Hot-Pluggable** Connect or disconnect to any running system at any time with no risk to the host or adapter.
- **Windows® and macOS® X support** provides operational flexibility across common admin laptop environments
- **Special Key Sequence Support** On-screen Virtual Keys panel sends Ctrl-Alt-Del, Alt-F4, Alt-Tab, Windows key combos, F1-F12, and custom meta-key sequences that the laptop OS would otherwise intercept.
- **Built-in snapshot capability** allows users to save screen captures for documentation or troubleshooting records.
- **Optional PS/2 keyboard support via included adapter** helps extend compatibility with older systems.

Application Diagram



Hardware Setup

Specifications

Physical	
Black Box Product SKU	KVT100A
Black Box Product Name	USB Laptop Console Crash Cart Adapter
Product Type	KVM
Dimensions (HxWxD)	0.6" x 2.9" x 4.5" (15 x 7 x 11.5 mm)
Weight	0.4 lb. (0.182 kg)

General	
Connectors	Inputs on Integrated Cable (to server): VGA: HD15 (Male); USB: USB Type-A (Male); Outputs (to laptop): Mini USB Type-B (Female) (USB 2.0) with detachable USB Mini Type-B (Male) to USB Type-A (Male) cable
MTBF (Mean Time Between Failures)	284000 Hours
Laptop Requirements	PC running Windows® 2000, Windows XP, or Windows Vista® or macOS® X 10.5 (Leopard) or higher (Intel® processor only); (1) available high-speed USB port (100-mA current); 20 Megabytes available disk space for install; 24-bit color display
OS Support	Microsoft Windows 10/11, macOS, Linux®
Server Requirements	(1) USB port (full speed) for keyboard/mouse (500-mA current); analog VGA graphics output (analog DVI can be used with adapter); OS supporting absolute USB mouse (Windows 2000 and later, macOS, Linux etc.)

USB	
Input Interface	15" (38.5 cm) pigtail
Output Interface	6 ft. (1.8 m) high-speed USB cable

Video	
Input Interface	VGA
Output Interface	VGA
Resolution	1920 x 1200 at 60 Hz
Input Cable Length	11" (29cm) pigtail

Specifications (continued)

Power	
Power Source	Internal 360 Watt power supply unit
Power	300 Watt AC adapter, 4.5 mm barrel
Input Voltage/Volts	5 VDC
Power Consumption	0.8 Watts maximum

Environmental	
Operating Temperature	32 to 104°F (0 to 40°C)
Storage Temperature	-40 to +158° F (-40 to +70° C)
Humidity Operating	Up to 80%, noncondensing
Humidity Storage	5 to 95% (non-condensing)

Regulatory and Warranty	
Approvals/Certifications	FCC Class A, CE, VCCI, and C-Tick
Country of Origin	Canada
Standard Warranty	2 Year standard warranty
Warranty Options	Extension by 1 or 3 years available

Product Includes:

- (1) Adapter with built-in VGA and USB Cables
- (1) Passive PS/2 to USB Keyboard Adapter
- (1) USB Mini Type B Male to USB Type A Male Cable
- (1) Flash Drive with Software and User Manual

Ordering Information

Product Code	Description
KVT100A	USB laptop console crash cart adapter

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About Black Box

Black Box is a trusted IT solutions provider delivering cutting-edge technology products and world-class consulting services to businesses across the globe in every industry. The breadth of our global reach and depth of our expertise accelerate customer success by bringing people, ideas, and technology together to solve real-world business problems.

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