

# USBDEX

KVM OVER USB 3.0 WITH INTEGRATED FLASH STORAGE



**CONTROL ANY SERVER INCLUDING BIOS FROM YOUR LAPTOP OVER A SINGLE USB 3.0 CABLE.  
NO NETWORK. NO AGENTS. NO CRASH CART.**

## FEATURES

- Real-time BIOS and UEFI access — full keyboard control from power-on
- Screen recording to host or onboard flash storage
- One-click screenshots saved without OS-level access
- Bidirectional text and clipboard transfer (copy/paste) between host and server
- Built-in USB flash storage — shared and accessible by both host and target simultaneously
- Mouse keepalive — prevents screensavers, sleep modes, and session timeouts
- Operates as a full KVM — keyboard, video, and mouse control over USB 3.0
- No software agent required on target server
- Hardware-only solution — plug and play
- Works with any computer with HDMI output and USB input
- Single USB 3.0 cable from host laptop
- 12VDC powered

## APPLICATIONS

- IT Administration & Server Management
- Bare-Metal OS Deployment
- Secure / Air-Gapped Environments
- Data Centers
- Remote BIOS Configuration
- R&D and Lab Systems
- Embedded & Industrial Systems
- Manufacturing Floor HMIs
- Network Operations Centers
- Security & Compliance Audits
- Education / Training Labs
- Field Service & On-Site Support



Designed and Manufactured in the USA

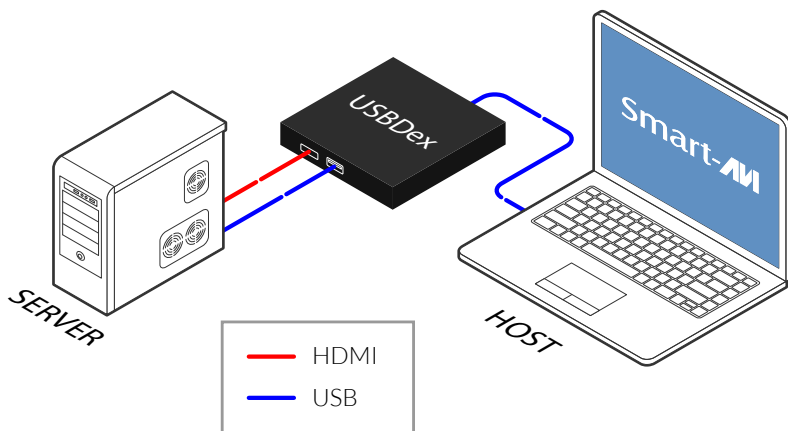
# OVERVIEW

The Smart-AVI USBDex gives IT professionals complete control over any server or computer – including full BIOS access – using nothing more than a USB 3.0 connection from their laptop. There’s no need for a network connection, dedicated crash cart, or any software installed on the target machine.

The USBDex delivers KVM functionality (keyboard, video, mouse) alongside integrated bidirectional flash storage for file transfer, real-time screen capture and recording, clipboard sync, and a configurable mouse keepalive – all in one compact, hardware-only device.

It connects to the target server via HDMI (video in) and USB (HID out), and to the host laptop via a single USB 3.0 cable – making it the most complete portable server management tool available today.

# APPLICATION DIAGRAM



USBDEX (Front panel)



USBDEX (Back panel)

# TECHNICAL SPECIFICATIONS

USB / KVM	
Host Interface	USB 3.0 Type-A
Server Video Input	HDMI
Server HID Output	USB Type-A
Max Resolution	4K @ 30fps
Typical Latency	< 50ms
Flash Storage	Built-in · Shared access
Driver Required	None (host or target)

OTHER	
Power Input	12VDC external
Power Adapter	AC 100-240V 50/60Hz
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +60°C
Humidity	Up to 95% (non-condensing)
Host OS Support	Windows, macOS, Linux
Target OS Required	None – agentless

PART NO.	DESCRIPTION
USBDK-100-S	KVM over USB 3.0 with Integrated Flash Storage. Includes: [USBDK-100, PS12VDC]

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