Server Management

Solutions for Server Room and Data Centre Rack

Revision 20250522 v1.0

Product Portfolio

LCD Console Drawer

Rackmount KVM Switch

KVM Extenders

IP Matrix Extenders

Server Management

LCD Console Tray — KCD-FH17-SS3V

LCD Console Drawer featuring a 17.3” TFT LCD display and a U.S. Keyboard with Touch Pad, sliding neatly into 1U of rack space.

KVM Switcher — RKS-FHDI Series (1U Rackmount)

1U Rackmount KVM Switch supporting single or dual-user access to 8 - 32 servers, featuring multi-video interface support with various KVM dongles, and seamless CATx cable connectivity.

Extended Console — KVM Extenders (e.g., DSG-KEX-150U2)

Point-to-Point KVM Extender enables remote operation by extending the local console of the Console Drawer, KVM Switch, or Server.

Matrix Access — IPMX-A4HF-x100CP (Matrix Extenders)

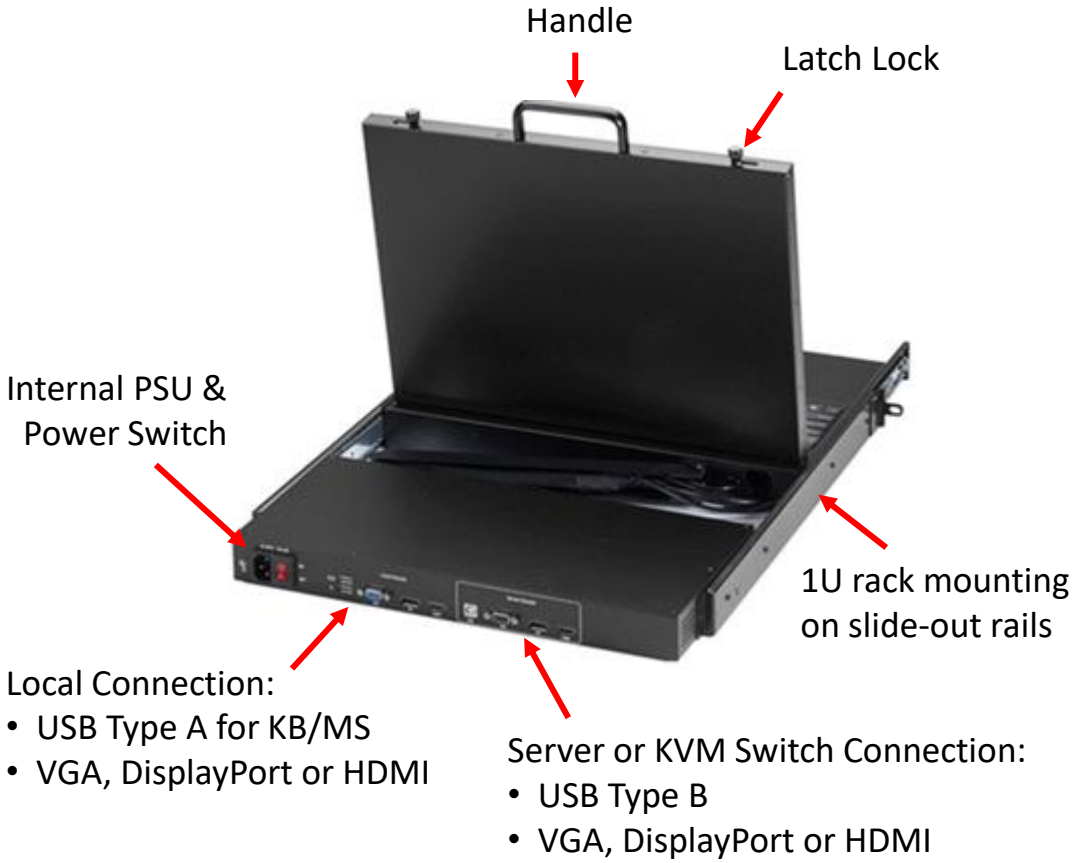
IP Matrix Extender enables remote access to local console of multiple Console Drawers, KVM Switches, or Servers seamlessly over standard IP network.

LCD Console Drawer

KCD-FH17-SS3V

LCD Console Drawer
KCD-FH17-SS3V

Product Intro:



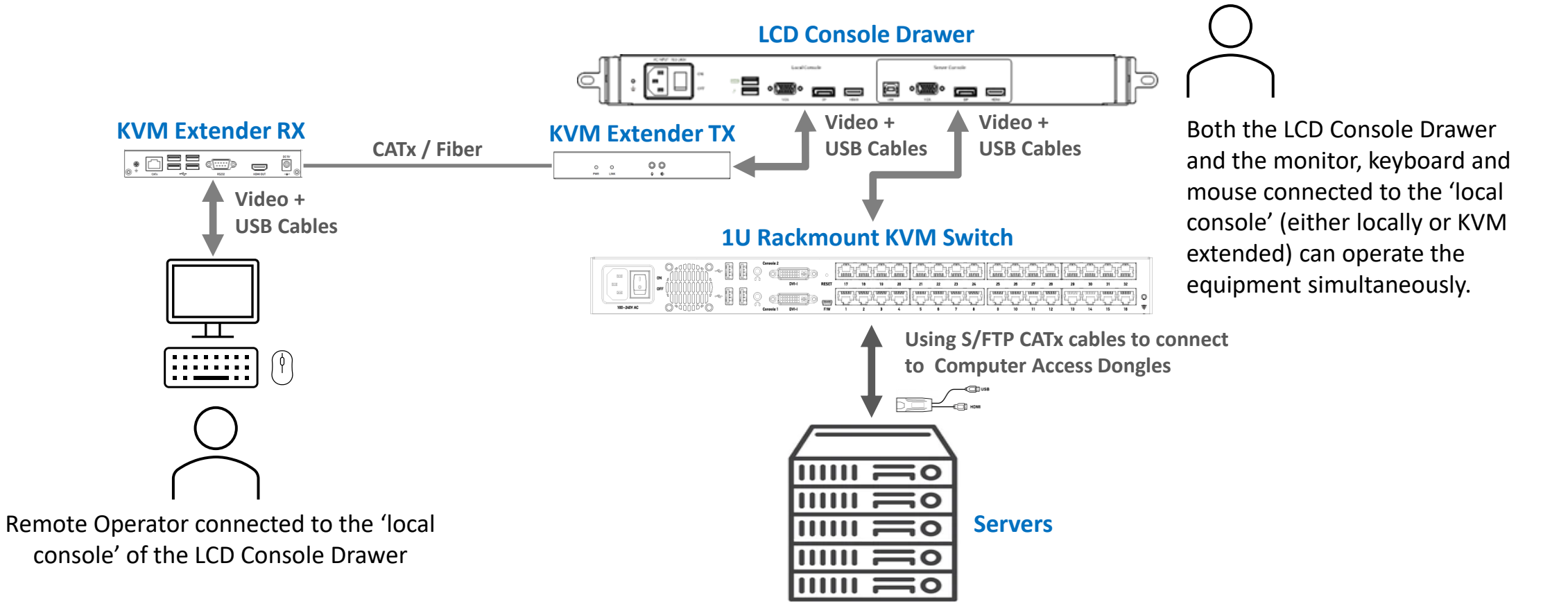
LCD Console Drawer
KCD-FH17-SS3V

Product Key Features:

- 17.3” TFT LCD panel with power-saving LED backlight
- Supports HD video resolution up to 1920x1080@60Hz (1080p)
- Video input/output options: VGA, DisplayPort, and HDMI (one selectable input)
- Local console supports KVM extension for remote operation
- Front USB hub supports USB HID (keyboard/mouse) and USB storage devices
- Automatic video-off function when the screen is folded below a 30° angle
- OSD buttons on the front panel for LCD control: Power, Menu, Select, Down, Up and Auto functions
- No built-in KVM switch – supports direct connection to a single server, or integration with a KVM switch or matrix extender for managing multiple servers
- Compatible with KVM switches and extenders, including RKS-FHDI Series, IPKX-A430 Series, KEX-HBT3 Series, and IPMX-A4HF Matrix Extender, for server management, extended console functionality, and KVM switching access.

LCD Console Drawer
KCD-FH17-SS3V

Integration Example: Supporting Local & Remote Operation and Managing Multiple Servers



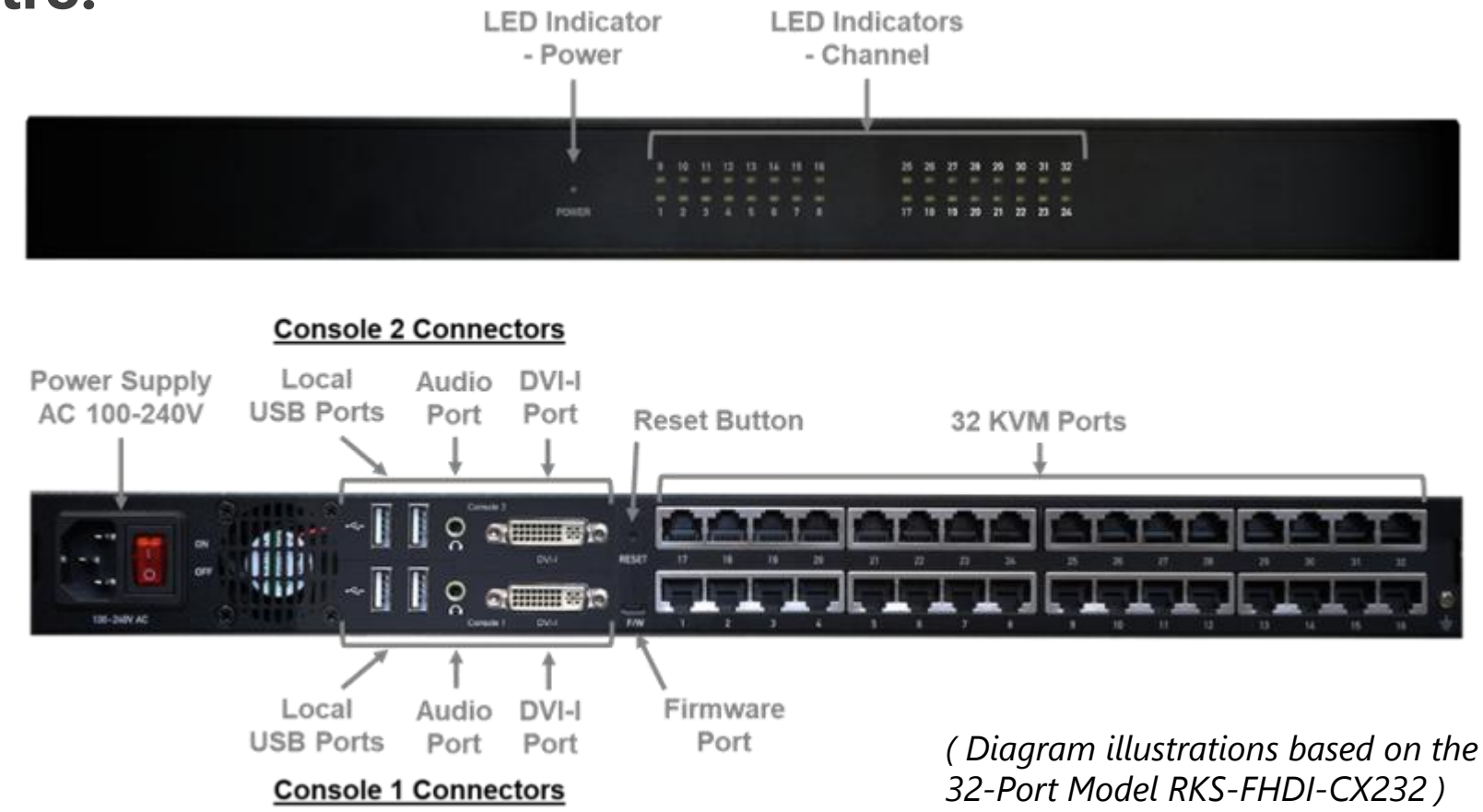
1U Rackmount KVM Switch

RKS-FHDI-CX108
RKS-FHDI-CX116
RKS-FHDI-CX216
RKS-FHDI-CX232

1U Rackmount KVM Switch

RKS-FHDI-CX108 / CX116 / CX216 / CX232

Product Intro:



(Diagram illustrations based on the 32-Port Model RKS-FHDI-CX232)

1U Rackmount KVM Switch
RKS-FHDI-CX108 / CX116 / CX216 / CX232

Product Key Features:

- **High-Resolution Video Support:** Supports resolutions up to 1920x1200@60Hz (Analog/VGA) and 1920x1080@60Hz (Digital/DVI) over standard Category 5e/6/6a cabling.

- **Multi-Format Video Interfaces:** Compatible with VGA, DVI, HDMI, and DisplayPort using dongles. Max. 45m/148ft over CATx. Shielded Twisted Pair (S/FTP) is recommended for long distances and environments with interference and noise.

- **Flexible Control Options:**
  - Supports single or dual local console access via 1x or 2x DVI-I (analog & digital) + 2x or 4x USB Type-A respectively.
  - Control 8, 16, or 32 servers directly. Expansion by cascading two levels is possible.

- **User-Friendly Management:**
  - On-Screen Display (OSD) and hotkey support for quick access.
  - Auto-Skip function to bypass inactive channels and Auto-Scan for monitoring computers at variable intervals.
  - Front Panel LEDs indicate each port's status (Green - Selected, White - Online).
  - Customisable server names for easy identification and selection.

1U Rackmount KVM Switch
RKS-FHDI-CX108 / CX116 / CX216 / CX232

Product Key Features:

- **Security & Firmware:**
  - Password protection ensures only authorised access to connected computers/servers.
  - Firmware upgradeable for future enhancements.
- **Hardware Design:**
  - Rack-mountable for professional installations.
  - Single or dual-user console operation functionality.
  - 8/16/32 RJ45 ports for CAT5e/6/6a connections.
  - Integrated power switch with lighting for visibility.

1U Rackmount KVM Switch

RKS-FHDI-CX108 / CX116 / CX216 / CX232

Product Model	Descriptions
RKS-FHDI-CX108	1U Rackmount KVM Switch (CATx), 1 User Console, 8 Ports
RKS-FHDI-CX116	1U Rackmount KVM Switch (CATx), 1 User Console, 16 Ports
RKS-FHDI-CX216	1U Rackmount KVM Switch (CATx), 2 User Consoles, 16 Ports
RKS-FHDI-CX232	1U Rackmount KVM Switch (CATx), 2 User Consoles, 32 Ports

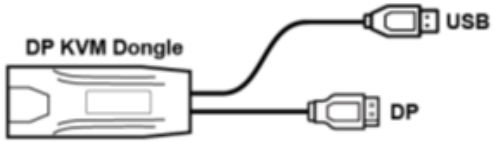
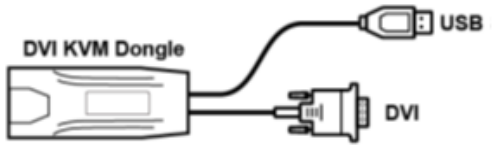
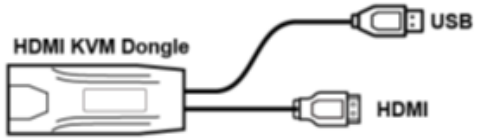
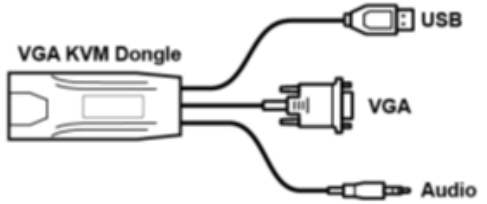
1U Rackmount KVM Switch

Computer Access Dongle: RKS-CAD-DP / DVI / HDMI / VGA

Computer Access Dongles (CADs)

- **Video Interfaces:** DP / HDMI / DVI / VGA to choose for the computer interface.
- **USB Interface:** USB-powered and supports HID Keyboard & Mouse.
- RJ45 x 1 for CATx S/FTP cable connectivity.
- Support point-to-point CAT5e/6/6a cable distance up to 45m (148ft) from the KVM Switch.

Note: The Computer Access Dongles are not included in the KVM Switch's package. Customer needs to select and purchase the appropriate CAD model and quantities according to the total servers and their video ports to be connected to the KVM Switch. Audio support is only available with HDMI and VGA CADs.

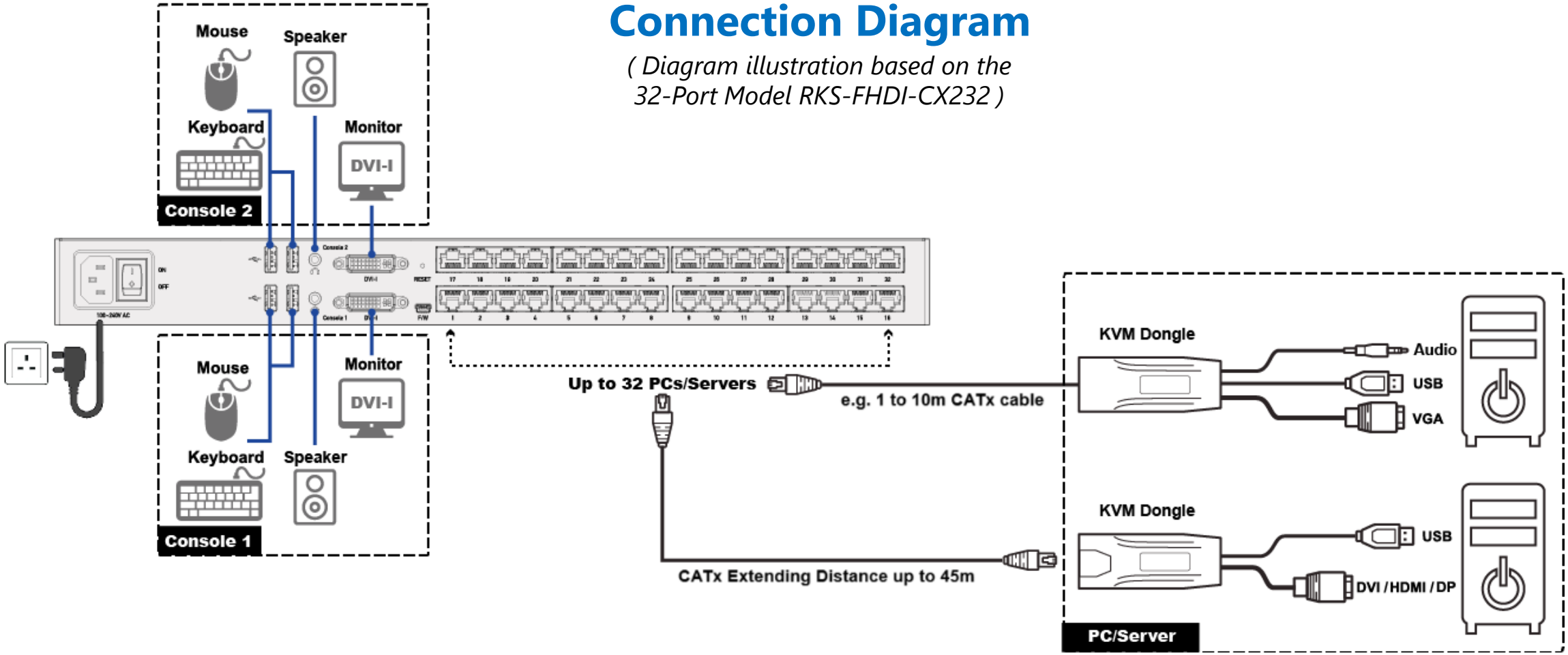
Model	Features
RKS-CAD-DP 	• USB + **DisplayPort** over CATx. • Does not support audio. • DP Cable Length: 16.5cm • USB Type A Cable Length: 40cm
RKS-CAD-DVI 	• USB + **DVI** over CATx. • Does not support audio. • DVI Cable Length: 16.5cm • USB Type A Cable Length: 40cm
RKS-CAD-HDMI 	• USB + **HDMI** over CATx. • Supports digital audio. • HDMI Cable Length: 16.5cm • USB Type A Cable Length: 40cm
RKS-CAD-VGA 	• USB + **VGA** + Audio Jack over CATx • Supports analogue audio. • VGA Cable Length: 16.5cm • 3.5mm Audio Jack Cable Length: 40cm • USB Type A Cable Length: 40cm

1U Rackmount KVM Switch

RKS-FHDI-CX108 / CX116 / CX216 / CX232

Connection Diagram

(Diagram illustration based on the 32-Port Model RKS-FHDI-CX232)



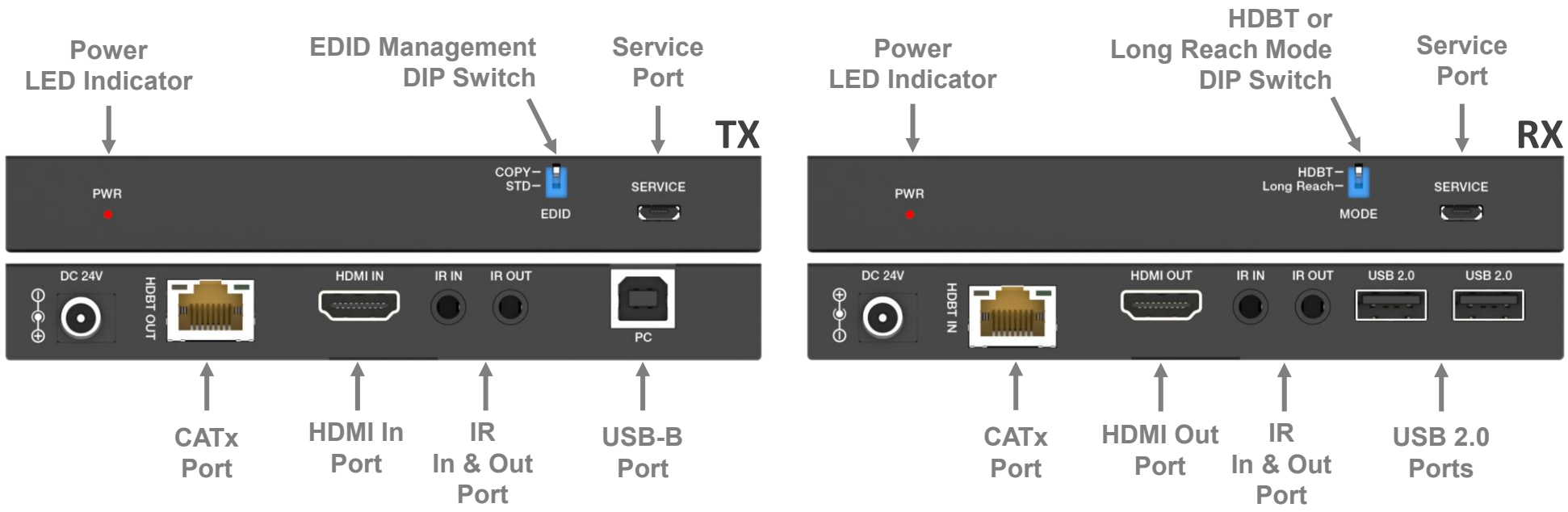
Point-to-Point CATx KVM Extenders

DSG-KEX-150U2

CATx KVM Extender

DSG-KEX-150U2

Product Structure Diagrams:



CATx KVM Extender
DSG-KEX-150U2

Product Key Features:

- HDMI 2.0b and HDCP 2.2 compliant
- Supports 18Gbps video bandwidth
- Supports video resolutions up to 4K@60Hz YUV 4:4:4
- Includes Mode DIP switch to select HDBaseT Mode or Long Reach Mode

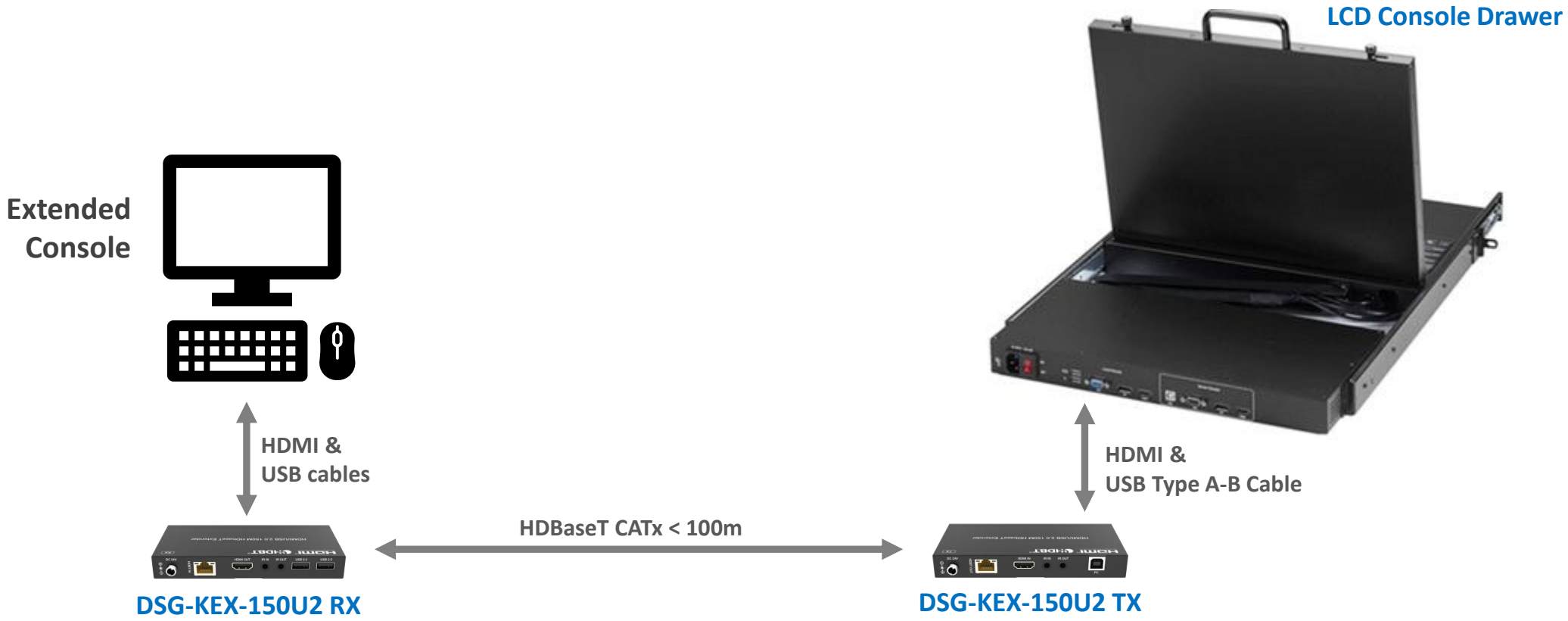
  HDBaseT Mode:
  - USB supports USB 2.0 transmission (supports connecting with USB camera, USB flash drive, and other devices); the audio & video signal transmission distance can be extended up to 100m / 328ft for 4K60.

  Long Reach Mode:
  - USB only supports HID (Human Interface Device) devices; the audio & video signal transmission distance can be extended up to 150m / 492ft for 1080P or 120m / 394ft for 4K60.
- Supports bi-directional IR signal and USB KVM signal pass-through
- Supports bi-directional PoC (Power over Cable) functionality
- Supports EDID Management
- Compact design for easy and flexible installation

CATx KVM Extender
DSG-KEX-150U2

Integration Example 1

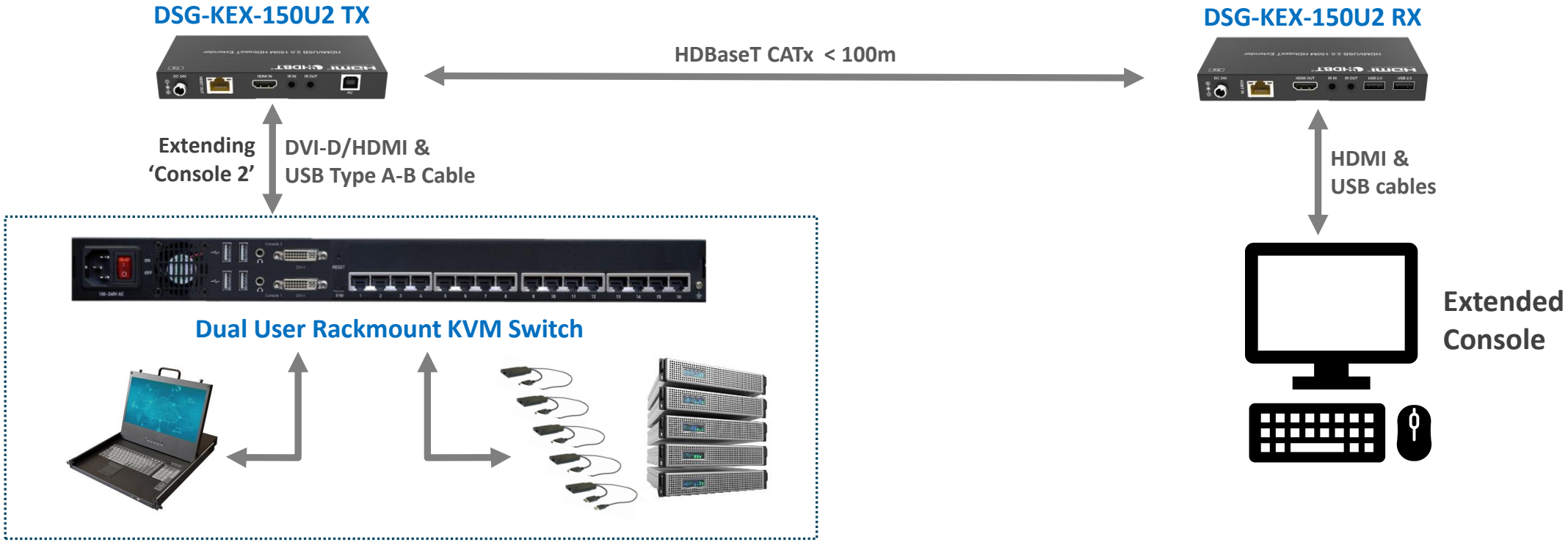
(e.g., Extending the 'Local Console' of the LCD Console Drawer)

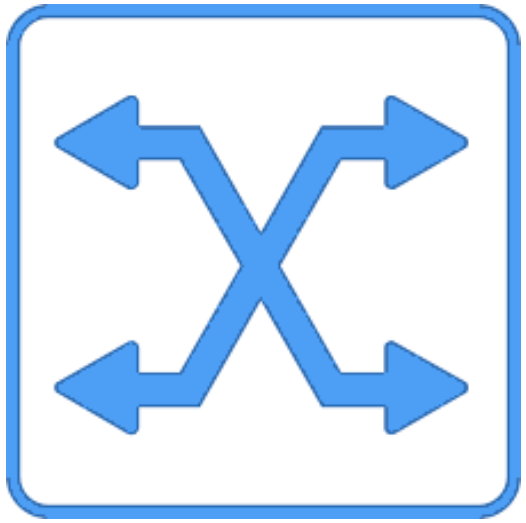


CATx KVM Extender
DSG-KEX-150U2

Integration Example 2

(e.g., Extending the 'Local Console' of the Rackmount KVM Switch)





IP Matrix KVM Extenders

AST PC / AV-OVER-IP EXTENDERS

IP Matrix KVM Extender

IPMX-A4HF-x100CP

Product Structure Diagrams:

IP Matrix KVM Extender
IPMX-A4HF-x100CP

Product Key Features:

- HDMI 2.0 and USB 2.0/1.1 over IP extension
- Supports HDMI resolutions up to 4K 60Hz 4:4:4
- HDMI loop-through on Transmitter
- Supports HDR and Dolby Vision
- HDCP 1.4 and 2.2 compliant
- Supports built-in EDID, EDID Copy, Pass-through and Auto-EDID configuration
- Bi-directional RS-232 extension
- IR extension
- Seamless KM switching on Transmitter and Receiver
- Supports KM over IP roaming - Seamless keyboard and mouse control across multiple systems by simply moving the mouse cursor across screen borders

IP Matrix KVM Extender
IPMX-A4HF-x100CP

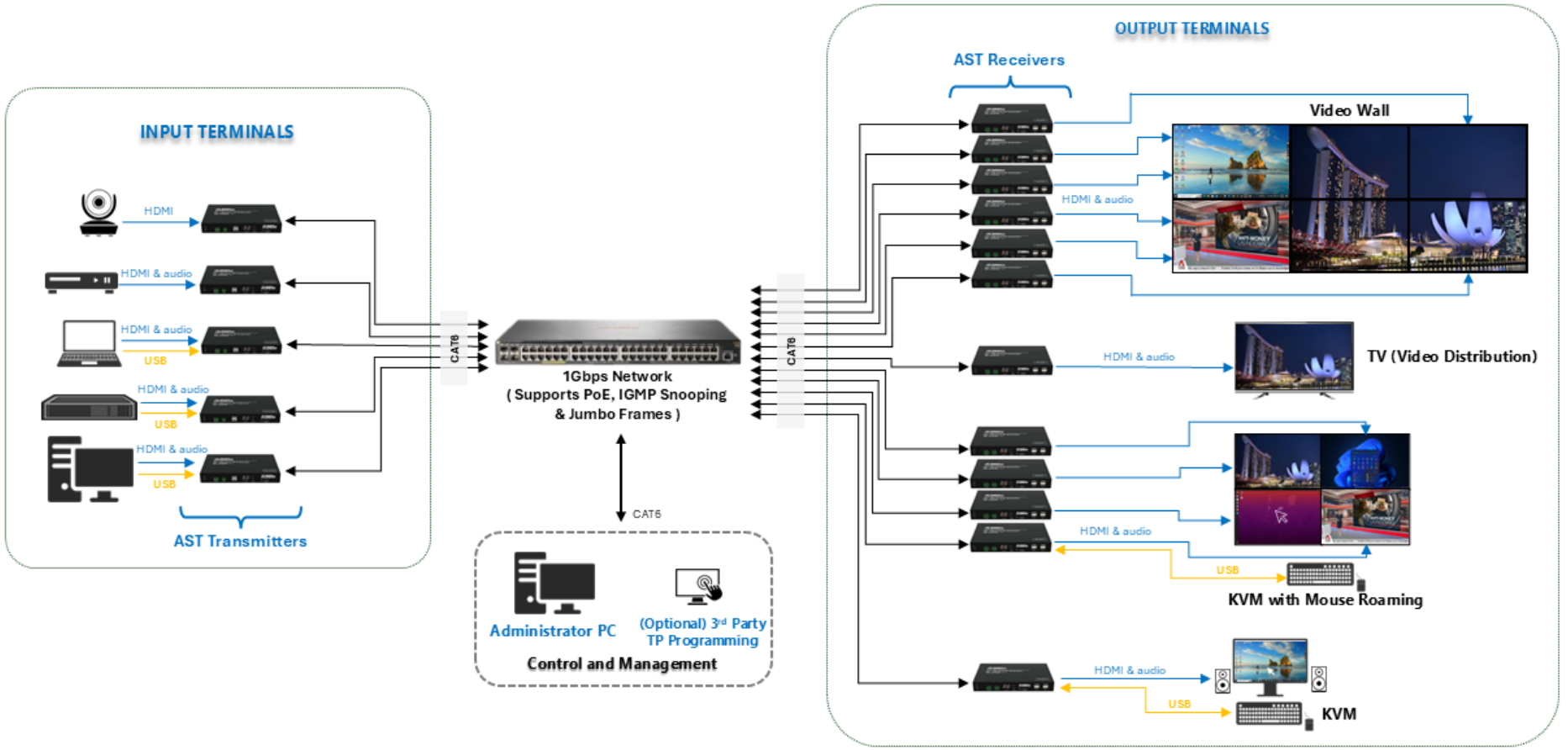
Product Key Features:

- Ultra-low latency (under 0.5 frames)
- Versatile configurations such as Point-to-Point extension, Point-to-Multipoint distribution, Multipoint-to-Multipoint matrix, and Video Wall system
- Built-in Video Wall Processing (up to 8x8)
- Built-in Scaler on Receiver (decoder)
- Digital LED Indicators with Up and Down Push Buttons for easy source channel selection
- Supports multiple control methods via built-in web interface, front panel buttons, telnet and third-party control development via API commands
- Operates efficiently in a standard networking environment using Gigabit Ethernet switches and CAT5e/6/6a cables
- Supports up to 100m with CAT6/6a cable extension without Ethernet switch
- Supports external power adapter or Power over Ethernet (PoE 802.3af) for flexible installation options
- Supports Multimode and Single-Mode SFP Network Transceivers for greater distance

IP Matrix KVM Extender

IPMX-A4HF-x100CP

AST PC / AV-over-IP Solution Diagram

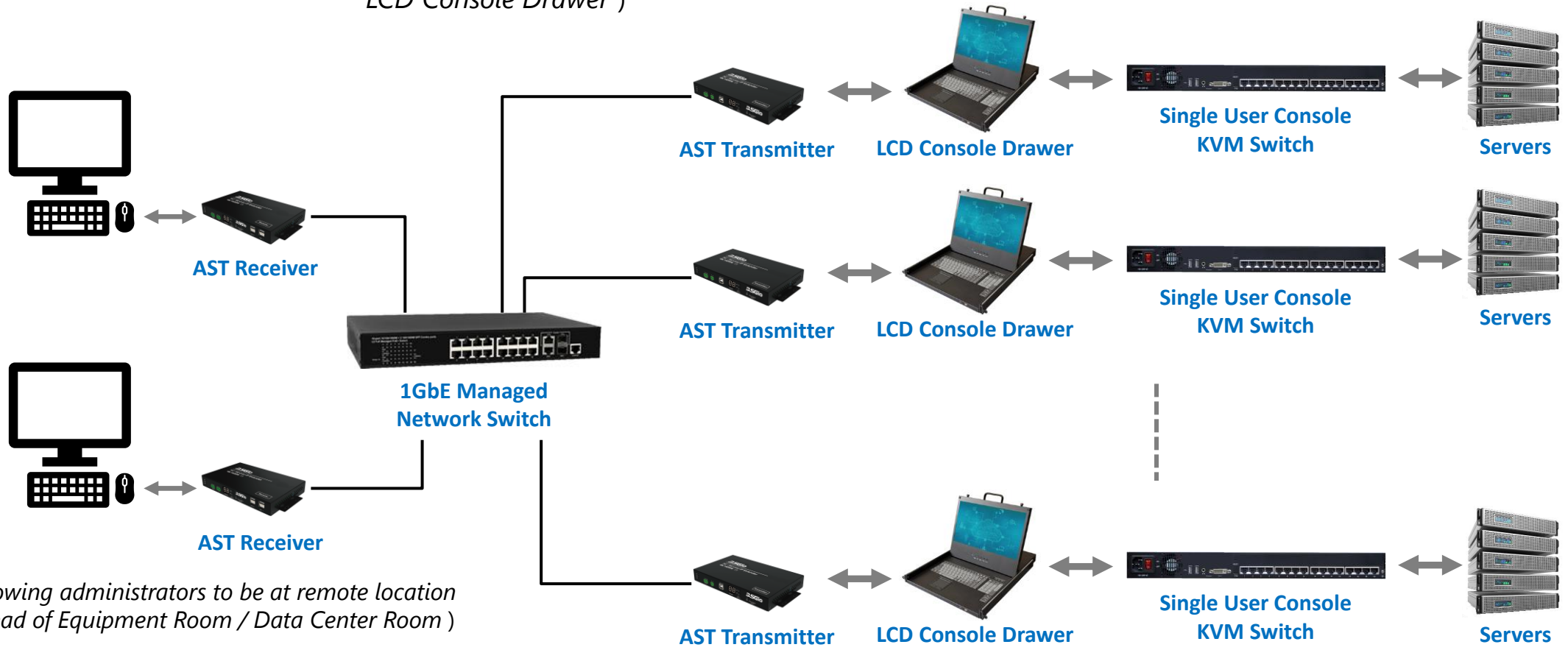


IP Matrix KVM Extender

IPMX-A4HF-x100CP

Integration Example 1

(Multiple remote users capable of matrix switch to any 'Local Console' of the LCD Console Drawer)

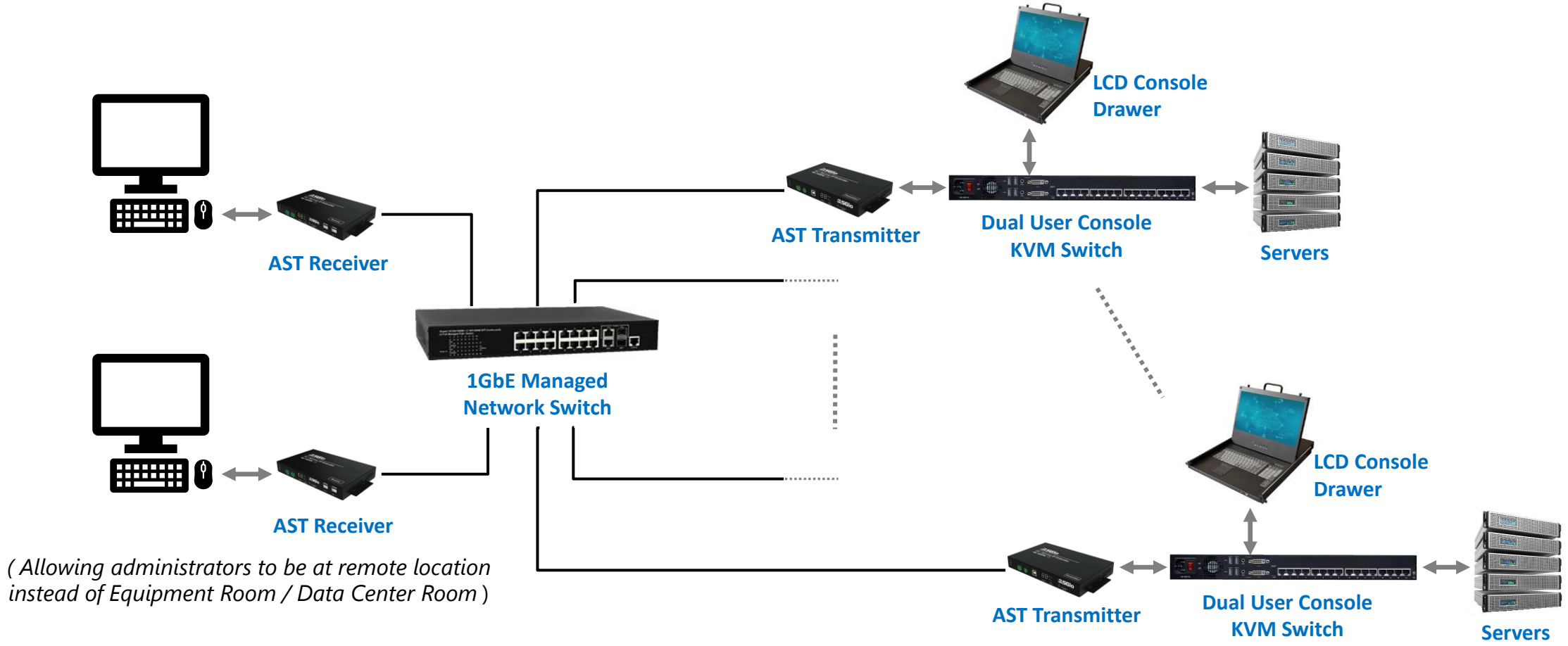


(Allowing administrators to be at remote location instead of Equipment Room / Data Center Room)

IP Matrix KVM Extender

IPMX-A4HF-x100CP

Integration Example 2 *(Multiple remote users capable of matrix switch to any 'Local Console' of the KVM Switch)*



(Allowing administrators to be at remote location instead of Equipment Room / Data Center Room)

How DSGio Can Help?

Consultation, Assessment, Recommendation

Design, Planning, Staging

- Help with choosing the right components
- Help with choosing the right channel partners for your project
- Experienced staff in Network AV and KVM
- Individually optimized technology mix from extensive portfolio
- Requirements analysis, solution proposing and pre-sales project planning by experienced engineer
- Optional equipment staging services

Contact Us

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