

DB-HMX2-E

4K Hybrid Matrix Switcher



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Contents

- 01 Introduction
- 02 Application
- 03 Features
- 04 Diagram
- 05 Specifications

Introduction

HMX2-E is modular-designed hybrid matrix switcher that supports upto 4k@60Hz seamless switching, with wide products range upto 160x inputs and 160x outputs. It is designed for mission critical situations where 24/7 reliability is non negotiable i.e control room, command center, conference room etc.

Spotlights

- Modular designed I/O card, fan and PSU, easy for maintenance and expansion.
- Ultra-scale up to 160x inputs and 160x outputs.
- Versatile interfaces with HDMI, DVI, DP, VGA, HDBaseT, Fiber, CVBS, YPbPr, SDI and IP stream.
- Up to 4k/60Hz seamless switching, 4:4:4 color sampling.
- Embedded and de-embedded audio switching supported.
- Live preview of all sources.
- Integrated video wall function



Application



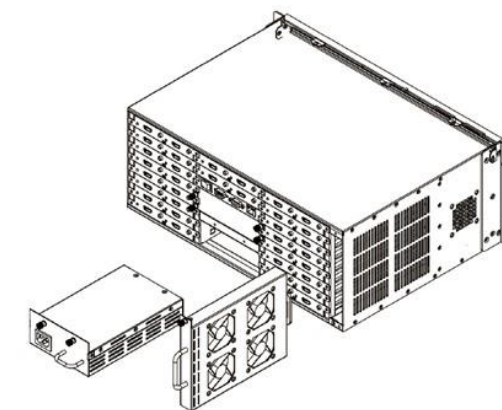
- Conference
- Information
- Command
- CCTV



Features

24x 7 Reliability

Processing is performed via FPGA chips without any operating system, it rules out the possibilities of system shut down and virus penetration. The device will protect itself from any damage when there is unexpected outage. In addition, redundant PSU will enhance reliability by automatically taking over whenever there are failed PSU.

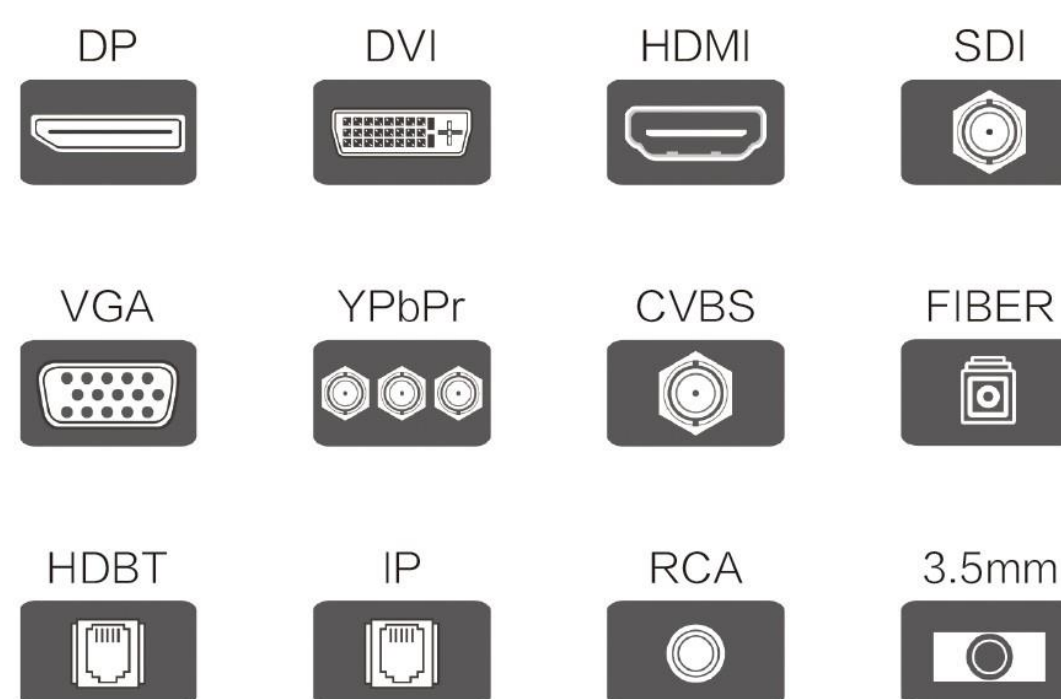


Versatile interfaces

At current stage, HMX2-E is offering versatile interfaces to meet the demand from various applications.

Video: HDMI, DVI, DP, VGA, HDBaseT, Fiber, CVBS, YPbPr, SDI, IP stream.

Audio: RCA, 3.5mm



4K seamless switching

The HMX2-E is able to auto detect the input and output resolution once connected.

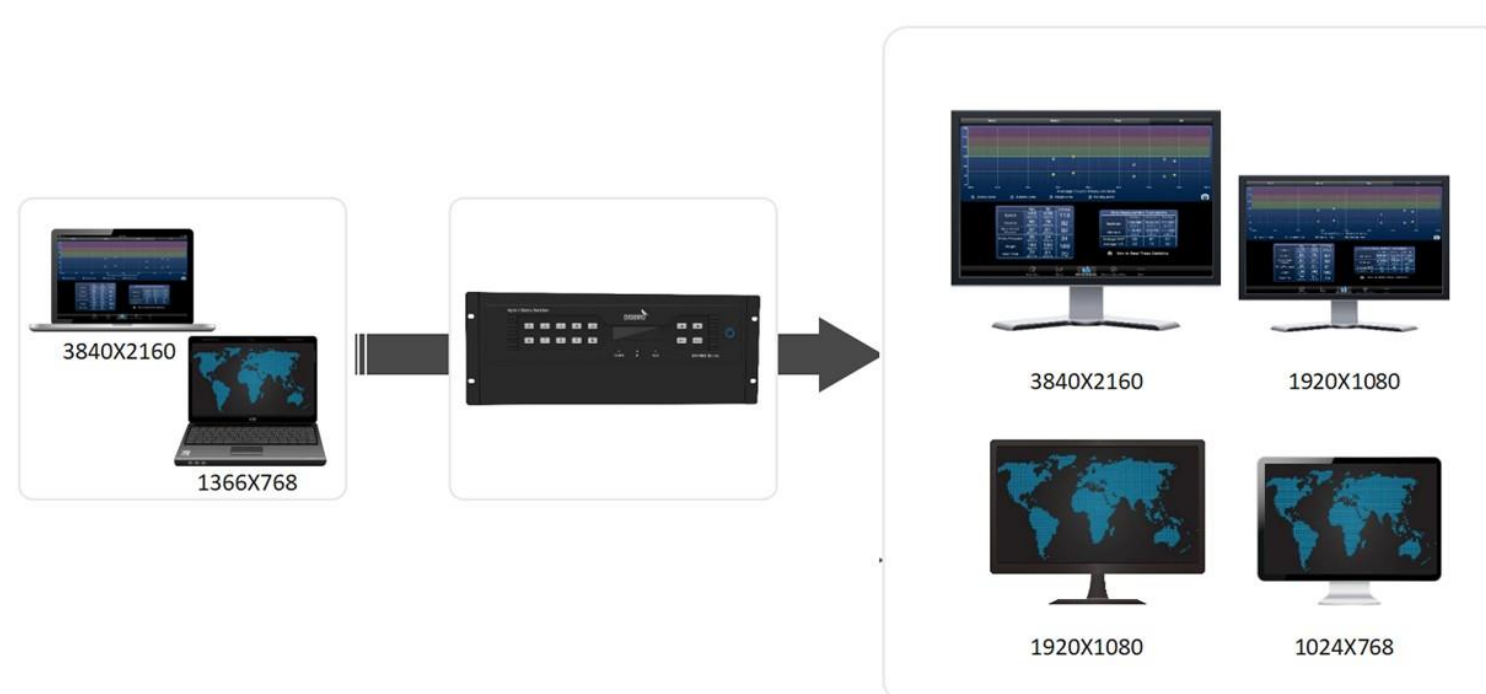
Switching among different sources is seamless without any blank intervals.



Features

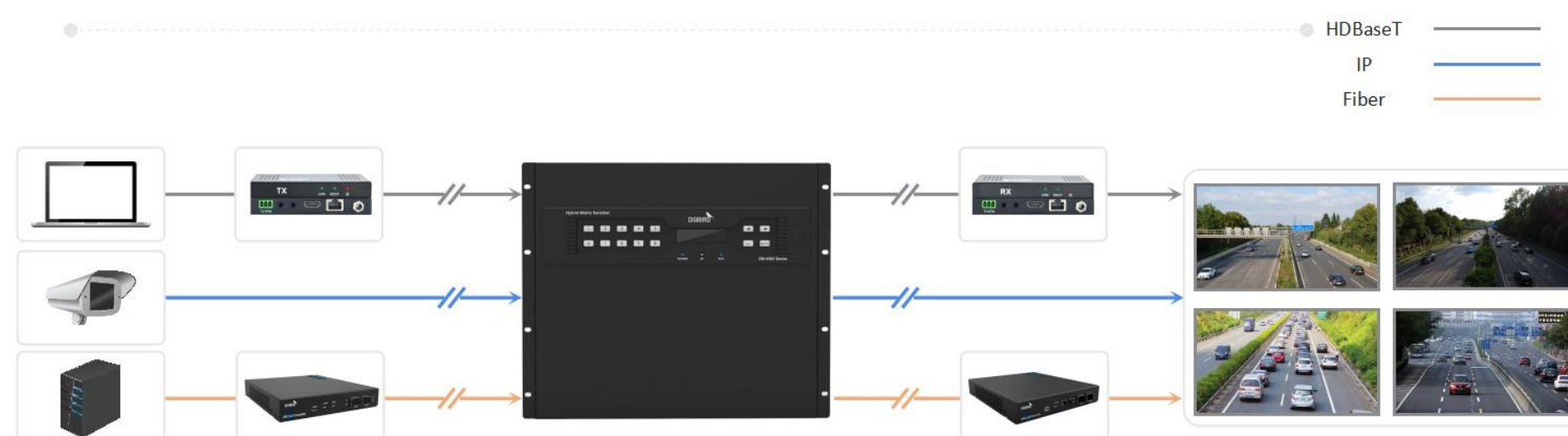
Self-adjusted resolution

The HMX2-E will auto adjust output resolution to best fit display device when switching different sources. It offers the flexibility for applications requiring multiple display devices.



Long Distance Transmission

For applications with transmission distance beyond reach of regular copper cable, HMX2-E provides options through HDBaseT, Network, or Optical Fiber.



Optional Control Methods

- Over control software on PC via IP or serial
- Over mobile devices via APP
- Over front panel via Push button
- Open API for third party system



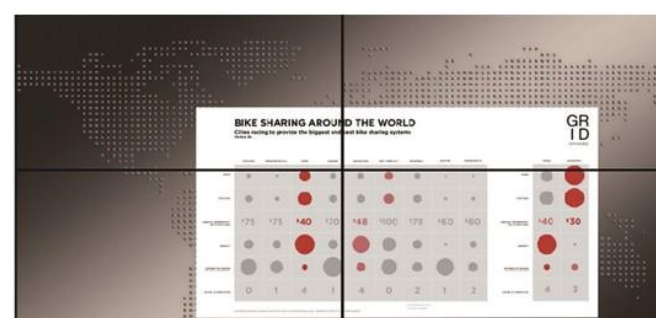
Features

Live preview

With optional preview card, user is able to preview contents of input sources and output displays in real time. This feature serves to avoid confusion and malfunction when there are plenty resources in the system.

Video wall function

Integrated video wall function, in addition to independent switching among input sources and displays, HMX2-E can be applied to power video wall as well supporting 2x layers per display.



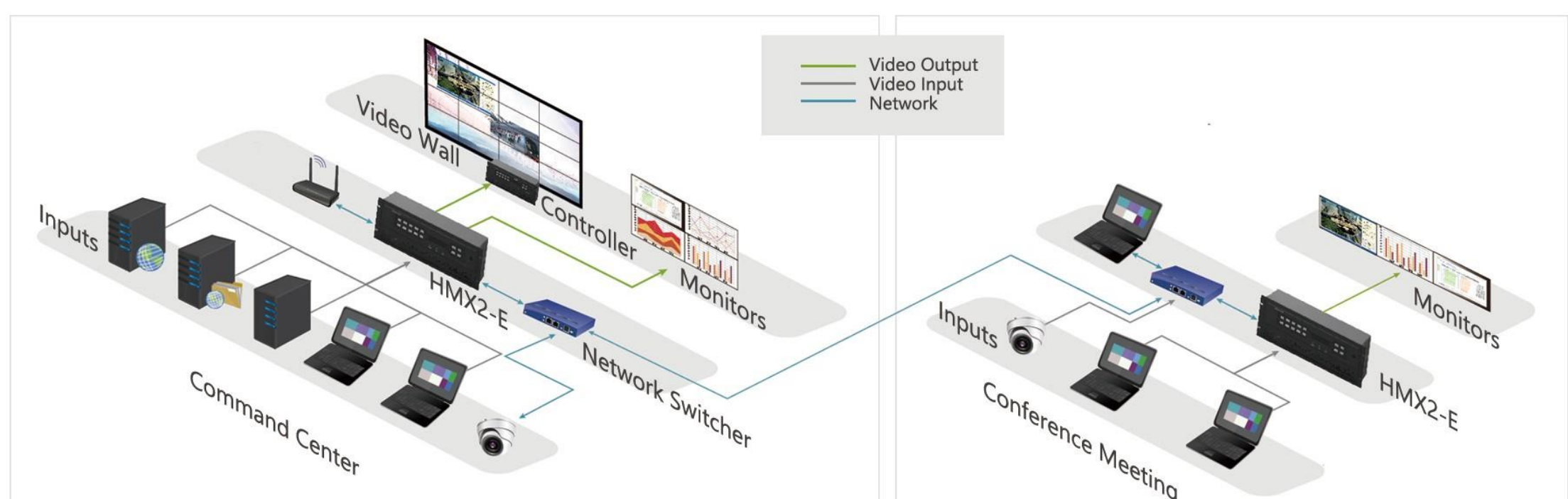
Multiple Control Interface

HMX2-E provides 3x styles of control interfaces and 2x background as options to meet the demand.

- Tiles
- List
- Matrix



Diagram





Specifications

Chassis							
Order Code:	EAN	Size:	Description:	Input Cards:	Output Cards:	Control Cards:	PSUs (Default+ Redundant):
DB-HMX2-E-FR2		2U	2U Chassis, up to 4x input cards, 4x output cards.	4	4	1	1+0
DB-HMX2-E-FR4		4U	4U Chassis, up to 9x input cards, 9x output cards.	9	9	1	1+0
DB-HMX2-E-FR9		9U	9U Chassis, up to 18x input cards, 18x output cards.	18	18	1	1+1
DB-HMX2-E-FR19		19U	19U Chassis, up to 40x input cards, 40x output cards.	40	40	1	1+3
DB-HMX2-E-FR34		34U	34U Chassis, up to 80x input cards, 80x output cards.	80	80	1	1+3
Input Cards							
Order Code:	EAN	Port Type:	Description:	Ports Qty.	Signal Type:	Resolution:	
DB-HMX2-E-IC-HDMI2		HDMI	2 channels HDMI input card.	2	HDMI 1.3	Up to 1920x 1200/60Hz	
DB-HMX2-E-IC-4KHDMI2		HDMI	2 channels HDMI 4K input card.	2	HDMI 1.4	Up to 4088x 2160/30Hz	
DB-HMX2-E-IC-U4KHDMI1		HDMI	1 channels HDMI U4K input card.	1	HDMI 2.0	Up to 3840x 2160/60Hz	
DB-HMX2-E-IC-4KDP2		DP	2 channels DP 4K input card.	2	DP 1.1	Up to 4088x 2160/30Hz	
DB-HMX2-E-IC-DVI2		DVI	2 channels DVI input card.	2	DVI	Up to 1920x 1200/60Hz	
DB-HMX2-E-IC-VGA2		VGA	2 channels VGA input card.	2	VGA	Up to 1920x 1200/60Hz	
DB-HMX2-E-IC-OPTS2		Fiber	2 channels Fiber input card.	2	Fiber	Up to 1920x 1200/60Hz	
DB-HMX2-E-IC-4KOPTS2		Fiber	2 channels 4K Fiber input card.	2	4K Fiber	Up to 3840x2160/30Hz	
DB-HMX2-E-IC-IP1		RJ45	1 channel IP input card.	1	IP	Up to 1920x 1080/60Hz	
DB-HMX2-E-IC-4KIP1		RJ45	1 channel 4K IP input card.	1	4K IP	Up to 3840x 2160/30Hz	
DB-HMX2-E-IC-4KHDBaseT2		RJ45	2 channels HDBT 4K input card.	2	4K HDBaseT	Up to 3840x 2160/30Hz	
DB-HMX2-E-IC-SDI2		SDI	2 channels SDI input card.	2	SDI	Up to 1920x 1080/60Hz	
DB-HMX2-E-IC-CVBS2		BNC	2 channels CVBS input card.	2	CVBS	Up to 720x 576/60Hz	
DB-HMX2-E-IC-VCVBS2		VGA	2 channels CVBS input card.	2	CVBS	Up to 720x 576/60Hz	
DB-HMX2-E-IC-VYPbPr2		VGA	2 channels YPbPr input card.	2	YPbPr	Up to 1920x 1200/60Hz	
Output Cards							
Order Code:	EAN	Port Type:	Description:	Ports Qty.	Signal Type:	Resolution:	
DB-HMX2-E-OC-EDVI2		DVI	2 channels EDVI output card.	2	EDVI	Up to 1920x 1080/60Hz	
DB-HMX2-E-OC-4KOPTS2		Fiber	2 channel Fiber 4K output card.	2	Fiber	Up to 3840x 2160/30Hz	
DB-HMX2-E-OC-IP1		RJ45	1 channel IP output card.	1	IP	Up to 1920x 1080/60Hz	
DB-HMX2-E-OC-4KIP1		RJ45	1 channel 4K IP output card.	1	4K IP	Up to 3840x 2160/30Hz	
DB-HMX2-E-OC-DVI2		DVI	2 channel DVI output card.	2	DVI	Up to 1920x 1080/60Hz	
DB-HMX2-E-OC-4KDP2		DP	2 channel 4K DP output card.	2	4K DP	Up to 3840x 2160/30Hz	
DB-HMX2-E-OC-VGA2		VGA	2 channels VGA output card.	2	VGA	Up to 1920x 1080/60Hz	
DB-HMX2-E-OC-HDMI2		HDMI	2 channels HDMI output card.	2	HDMI 1.3	Up to 1920x 1080/60Hz	
DB-HMX2-E-OC-4KHDMI2		HDMI	2 channels HDMI 4K output card.	2	HDMI 1.4	Up to 3840x 2160/30Hz	
DB-HMX2-E-OC-U4KHDMI1		HDMI	1 channels HDMI U4K output card.	1	HDMI 2.0	Up to 3840x 2160/60Hz	
DB-HMX2-E-OC-HDBaseT2		RJ45	2 channel HDBT output card	2	HDBaseT	Up to 1920x 1080/60Hz	
DB-HMX2-E-OC-4KHDBaseT2		RJ45	2 channel HDBT 4K output card	2	HDBaseT	Up to 3840x 2160/30Hz	
DB-HMX2-E-OC-ESDI2		SDI	2 channels SDI output card.	2	SDI	Up to 1920x 1080/60Hz	
DB-HMX2-E-OC-CVBS2		BNC	2 channels CVBS output card.	2	CVBS	Up to 720x 576/60Hz	
DB-HMX2-E-OC-PV		RJ45	1 channel IP Network Preview Card.	1	IP	/	
DB-HMX2-E-OC-4KPV		RJ45	1 channel IP Network Preview Card.	1	IP	/	