NEXIS

HM402A

4x2 HDMI 2.0 Matrix Switcher with Audio Extractor/Scale/ARC/EDID function



1. Introduction

This high performance HDMI Matrix Switcher can switch any of these four HDMI sources to two HDMI displays. It supports resolution up to 4K2K@60Hz YCbCr 4:4:4 and HDCP 2.2. It can extract HDMI source device audio to optical and analog L/R output. It supports 4K→1080P downscale function if source is 4K but TV only supports up to 1080P. It also supports ARC and EDID (AUTO/COPY/STD) function. With its 18Gbps bandwidth and the additional features with latest HDMI standards. Flexible control via front panel buttons and IR remote.

2. Features

- ☆ HDMI 2.0, HDCP 2.2 / HDCP 1.4 and DVI 1.0 compliant
- ☆ Supports 4 HDMI inputs and 2 HDMI outputs
- ☆ Video resolution up to 4K2K@60Hz YCbCr 4:4:4
- ☆ Supports 18Gbps uncompressed bandwidth on all HDMI
- ☆ Supports Dolby Vision, HDR 10+, HLG
- ☆ Supports extract HDMI input source device audio of OUT A or OUT B to optical and analog L/R output
- ☆ OUT A and OUT B support 4K to 1080P downscale function
- ☆ Supports ARC (Audio Return Channel) function
- ☆ Supports advanced EDID management including AUTO, COPY and STD
- ☆ Control is via front panel buttons and IR remote

3. Specifications

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18 Gbps
Video Resolution	Up to 4K2K@50/60Hz(YCbCr 4:4:4),4K2K@30Hz.All HDMI 3D TV format, etc.
Color Space	RGB, YCbCr4:4:4,YCbCr4:2:2, YCbCr 4:2:0
Color Depth	8-bit, 10-bit, 12-bit [1080P, 4K30Hz, 4K60Hz (YCbCr 4:2:0)] 8-bit [4K60Hz (YCbCr4:4:4)]
HDMI Audio Formats	PCM2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX,DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Optical Audio Formats	PCM2.0, Dolby Digital / Plus, DTS
L/R Audio Formats	PCM2.0CH (Note: If ARC function is turned on, the audio port will mute.)
ESD Protection	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connections	
Input Ports	4×HDMI Type A [19-pin female]
Output Ports	2×HDMI Type A [19-pin female] 1×L/R audio out [3.5mm Stereo Mini-jack] 1×OPTICAL audio out [S/PDIF]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	251mm(W)×105mm(D)×20mm(H)
Weight	620g
Power Supply	Input: AC100~240V 50/60Hz Output: DC12V/1A
Power Consumption	3.8W (max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

4. Application Example

