

GW2800 RGBHV Routing Switcher



GW2800 is a high performance RGBHV Multi Standards Video Routing switcher for computer signal and high definition video signals. The input RGBHV signal can be switched to any output channel. The RGBHV signals are transmitted independently each other. RGBHV, Composite Video, YUV Video and Audio switching boards can be mixed at in the same chassis platform higher than 19" 3U, where the standby power supply makes the switcher more reliable.

Features:

- 19" 1U/3U/6U/12U/18U/24U/30U standard chassis with standby power and remote control panel
- RGBHV Routing Switcher 4×1~16×16, 32×4~64×64 or 128×4~128×128
- Video standard: RGBHV, Composite Video, YUV Video
- Video Connector: 5BNC/15HDF for RGBHV, 3 PIN for Audio
- RGBHV Video Bandwidth: 350MHz
- Seamless Switching among multi signals
- Supporting Resolution: 640×480, 800×600, 1024×768, 1280×1024, 1600×1200
- Audio standard: balanced, unbalanced
- Enable video, audio alone or simultaneous switching
- Modular Design, Hot Plug-in
- Power Off Memory
- Synchronic Signal Input available.
- TCP/IP Interface, RS232, RS-422 or RS-485 Available

Specifications:

Signal Standards

Video Standards: RGBHV, YUV, Composite Video

Audio: Stereo (Balanced, Unbalanced)

Video Performance

Connector: 5BNC/15HDF for RGBHV

Input Level: 1Vp-p

Maximum Input: 0.5~2.0Vp-p

Impedance: 75 Ohms

Gain: 0dB

Gain Flatness: $\leq \pm 0.1\text{dB}$

Frequency Response: $\leq \pm 0.1\text{ dB}$ (up to 6MHz)

RGBHV Bandwidth: 350MHz

SNR: >70 dB (Unweighted)
K-factor: <0.25%
DG: <0.05%(10-90%APL) @4.43MHz
DP: <0.1° (10-90%APL) @4.43MHz
Video Return Loss: >40dB@4.43MHz
Cross Talk: < -66 dB @4.43MHz
Switching Speed: 200ns
Path Length Diff: <±0.1° @4.43MHz
Chr/Lum Gain Inequality: <±0.15%
Chr/Lum Delay Inequality: <±2 ns
Synchronous Input Level: TTL/High Impedance
Synchronous Output Level: TTL/Low Impedance (33 Ohms)

Audio Performance

Connector: 3Pin (Balanced/Unbalanced)
Level: Maximum +20dBu
Input Impedance: High
CMRR: >60 dB (20Hz~20KHz)
Audio Bandwidth: 20Hz~50KHz
Gain: 0dB for balanced audio and -6dB for unbalanced audio
Gain Flatness: <±0.1dB
Frequency Response: <±0.1dB (20Hz~20KHz)
Noise: <-85dB (20KHz Weighted, RMS)
Cross Talk: <-90dB (Up to 20KHz)

Communications and Environment

Com Port: RS-232 9pin Interface, 2-RX, 3-TX, 5-GND
Protocol: 9600 bit, 8 Digit
Com Port Option: TCP/IP, RS-422, RS-485
Power Supply: 100~240V/AC 50/60Hz
Power Consumption: 40W~200W
Working Temperature: 0°C~60°C

Ordering Information:

GW2800-ABC RGBHV Routing Switcher

A (Input RGBHV Channel): 4 or 8 or 16 or 24 or 32 or 48 or 64 or 128
B (Output RGBHV Channel): 1 or 2 or 4 or 8 or 16 or 24 or 32 or 48 or 64 or 128
C: None_RGBHV with 350MHz bandwidth only, S_RGBHV with 350MHz bandwidth and Stereo Audio