

2x1 HDMI+USB-C Switcher

Nexus21NEO



DESCRIPTION

Taska Nexus21NEO is a 2x1 HDMI and USB-C Switcher designed as the ultimate connectivity hub for modern BYOD huddle rooms. With one HDMI and one full-featured USB-C input, it delivers stunning 4K@60Hz 4:4:4 visuals to a high-definition display. The system streamlines meetings by consolidating video, 5Gbps data, 1G Ethernet, and 100W laptop charging into a single-cable solution. Whether using its automated switching logic or professional control interfaces like Web GUI and RS-232, the Nexus21NEO ensures a high-performance collaborative experience.

PRODUCT FEATURES

- | USB 3.2 Gen 1 (5Gbps) host and local hub
- | USB 3.2 Gen 1 (5Gbps) device with 5V/1.5A power output
- | Featuring a 2-input, 1-output architecture, it allows users to switch between one HDMI and one full-featured USB-C input
- | Support balanced/un-balanced analog audio embedding to USB or HDMI audio
- | Support balanced/un-balanced analog audio de-embedding from USB or HDMI audio
- | Advanced EDID management
- | User defined welcome screen and no signal display image
- | Dual 1G Ethernet ports with 802.1x and VLAN
- | IR eye for IR learning and control
- | Auto display on/off control
- | External device control via CEC/IR/RS-232/LAN/GPIO
- | Control via front panel buttons, RS-232, API and WebGUI control

SPECIFICATION

	Technical
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.3
DP Compliance	DP 1.4a (USB-C input)
USB Compliance	USB 3.2 Gen1 (5Gbps)
Video Bandwidth	18Gbps
Network Bandwidth	1Gbps
Video Resolution	4096x2160p60Hz, 4096x2160p59.94Hz, 4096x2160p50Hz, 4096x2160p30Hz, 4096x2160p29.97Hz, 4096x2160p25Hz, 4096x2160p24Hz, 4096x2160p23.98Hz, 3840x2160p60Hz, 3840x2160p59.94Hz, 3840x2160p50Hz, 3840x2160p30Hz, 3840x2160p29.97Hz, 3840x2160p25Hz, 3840x2160p24Hz, 3840x2160p23.98Hz, 1920x1080p60Hz, 1920x1080p59.94Hz, 1920x1080p50Hz, 1920x1080p30Hz, 1920x1080p29.97Hz, 1920x1080p25Hz, 1920x1080p24Hz, 1920x1080p23.98Hz, 1920x1080i60Hz, 1920x1080i59.94Hz, 1920x1080i50Hz, 1280x720p60Hz, 1280x720p59.94Hz, 1280x720p50Hz, 720x576p50Hz, 720x576i50Hz, 720x480p59.94Hz, 720x480i59.94Hz, 1600x1200p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1360x768p60Hz, 1280x1024p60Hz, 1024x768p60Hz, 800x600p60Hz, 640x480p60Hz
Color Space	RGB, YCbCr4:4:4, YCbCr4:2:2, YCbCr4:2:0
Color Depth	8/10/12-bit, 8-bit (4K@60Hz, 4:4:4)
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	HDMI IN, USB-C IN, HDMI OUT LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTSHD Master Audio, DSD Analog Audio IN/OUT LPCM 2CH (sample rate 32~192kHz)
Analog Input Audio Parameters	Input Impedance 20K Ohm balanced, 10K Ohm unbalanced Input Level Max 8.2dBu (2Vrms) balanced audio Frequency Response 20Hz to 20kHz (-/+0.5dB) Audio S/N Ratio >90dB@0dBu, 1kHz A-weighted Audio THD+N < 0.01%@+4dBu, 1KHz Audio Input Delay <1ms
Analog Output Audio Parameters	Output Impedance 00 Ohm balanced, 300 Ohm unbalanced Output Level (Maximum) Max 8.2dBu (2Vrms) balanced audio Max 2.2dBu (1Vrms) unbalanced audio Frequency Response 20Hz to 20kHz (-/+1dB) Audio S/N Ratio >90dB@0dBu, 1kHz A-weighted Audio THD+N < 0.067%@+4dBu, 1KHz Audio Output Delay <1ms
IR Level	5Vp-p
IR Frequency	20k-60kHz
Transmission Distance	USB 3.2 Passive Cable: 1.5m/4.9ft, HDMI Passive Cable: 3m/9.8ft
	Connection
Input	1× IN [HDMI Type A, 19-pin female], 1× USB-C IN [USB-C, 24-pin female] 1× HOST [USB-B, 9-pin female], 1× L/R AUDIO IN [5-pin 3.5mm phoenix connector]
Output	1× OUT [HDMI Type A, 19-pin female], 1× USB DEVICE [USB-C, 24-pin female] 2× USB DEVICE [USB-A, 9-pin female], 1× L/R AUDIO OUT [5-pin 3.5mm phoenix connector]
Control	1× RS-232 [3-pin 3.5mm phoenix connector], 1× IR OUT [3.5mm stereo audio jack] 2× LAN [RJ45 connector], 1× GPIO [6-pin 3.5mm phoenix connector], 1× SERVICE [USB-C, FW update port]
	Mechanical
Color	Black
Dimensions	230mm [W] × 130mm [D] × 23mm [H]
Weight	796g
	Electrical
Power Consumption	37W (without USB-C charging); 145W (with 100W USB-C charging)
Power Supply	DIN 4-pin: DC 24V/7.5A
	Environment
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20~80% RH (Non-condensing)
Storage Humidity	10~90% RH (Non-condensing)