

FEATURES

- ▷ Excellent Value
- ▷ Compact Size
- ▷ Rugged Steel Enclosure
- ▷ Highest of Quality Components

APPLICATIONS

- ▷ Live Broadcast
- ▷ Arenas and Stadiums
- ▷ Shared Control Rooms
- ▷ Campus Facilities



Rear Panel



Front Panel

NB2-12G-HDMI

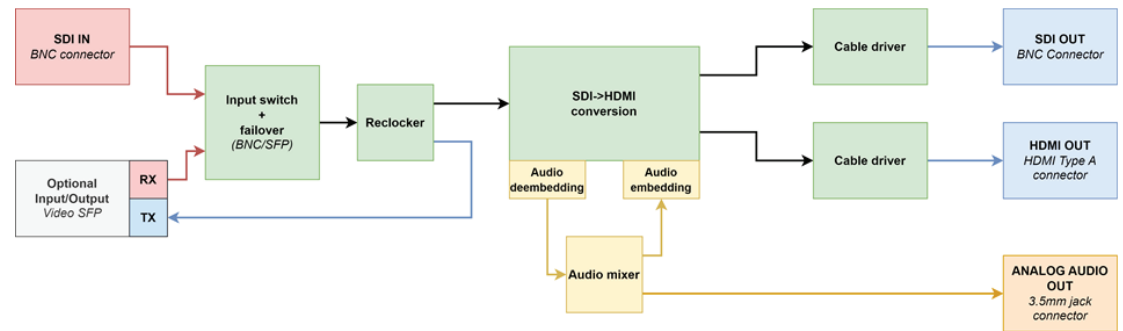
The NanoBrix NB2-12G-HDMI from MultiDyne converts 12G-SDI to HDMI 2.0 signals. This makes it an ideal cost-effective monitoring solution to display professional 12G-SDI signals on LED monitors with HDMI 2.0 inputs. In addition, the unit provides external audio outputs that can be routed to powered speakers. Audio outputs are DIP switch selectable to be either a stereo pair or a Lt/Rt multichannel downmix allowing for 5.1 audio to be mixed down to stereo. Providing a comprehensive audio and video monitoring solution in a compact and rugged form factor.

The NB2-12G-HDMI accepts a single link SDI input ranging from SD up to 12G-SDI with a reclocked SDI output to feed downstream equipment.

Optional fiber SFP equipped models are available including the NB2-12G-HDMI-OE-LC receiver, which can receive an SDI signal over distances up to 10KM on a single LC fiber connector. The NB2-12G-HDMI-OEEO-LC provides both an input and regenerated fiber output on a duplex LC fiber connector. And finally, there is the NB2-12G-HDMI-OE-ST which accepts an SDI signal on a single ST fiber connector.

Power to the unit is provided by an AC adapter with a locking DC power connector. Backup power and firmware updates are possible using the USB-C connector.

BLOCK DIAGRAM



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TECHNICAL SPECIFICATIONS

Coaxial Serial Data Input/Output

Connector	75-ohm BNC
Bit Rate	270 Mbps – 12 Gbps
Cable Auto Equalization	60m - Belden 1694A @ 12 Gbps 80m - Belden 1694A @ 3 Gbps 120m - Belden 1694A @ 1.5 Gbps 200m - Belden 1694A @ 270 Mbps
Standards	SMPTE 424M, 292M, 259M-C, 2082-1 DVB-ASI
Return Loss	< 15dB @ 5 MHz – 1.5 GHz < 10dB @ 1.5 GHz – 3.0 GHz
Level	800 mVp-p nominal
Alignment Jitter	< 0.3 UI

Mechanical, Electrical, Environmental

Length/Width/Height	4" x 2.625" x 0.825"
Approx. Weight	8oz
Voltage	5 VDC, (5 Power Supply Included, 90-240VAC)
Power	5W max
Operating temperature	-20 to +45°C (-4 to +113°F)
Storage temperature	-40 to +70°C (-40 to +158°F)
Operation Humidity	Max. 90% (noncondensing)

ORDERING INFORMATION

Part #	Description
NB2-12G-HDMI	12G/6G/3G/HD/SD-SDI to HDMI 2.0 Converter. Includes Power Supply. Optional SFP sold separately.
NB2-12G-HDMI-OE-LC	12G/3G/HD/SD-SDI to HDMI 2.0 Converter. Includes Power Supply & MDOPT02978 12G -SDI Video OE Receiver SFP. LC connector
NB2-12G-HDMI-OEEO-LC	12G/3G/HD/SD-SDI to HDMI 2.0 Converter. Includes Power Supply & MDOPT02974 12G -SDI Video OEEO Transceiver SFP. LC connectors
NB2-12G-HDMI-OE-ST	12G/3G/HD/SD-SDI to HDMI 2.0 Converter. Includes Power Supply & MDOPT02978 12G -SDI Video OE Receiver SFP. ST connector
NB2-ST-ADAPTER	Standard ST adapter to convert SFP to 1 ST
MDOPT02974	12G-SDI SFP Transceiver, 1310nm, MSA, CDR, Supports Pathological, LC connectors
MDOPT02978	12G SFP SINGLE RX, NON MSA, CDR, Pathological