4K HDMI CONVERTERS
Audio Video Distribution System

Innovative Advantage

100-0085-XX HDMI to SDI Adapter
100-0086-XX SDI to HDMI Adapter

Video converters deliver virtually latency free 4K |1080 video and audio over HDSDI/Coax

HDMI converters route 4K|1080p signals at 3Gbps over coax. Visually lossless compression provides beautiful HiDef end to end.

No latencies means computer presentations, AVOD, and video games are welcome.

4K down convert output available for distribution to HD monitors.

Compatible with **AVDS** backbone—add 4K to any existing system.

Upgrade: Utilize existing HDSDI cable infrastructure to transmit 4K|1080p resolutions to multiple monitors with ease.

Utilize any monitor with HDMI input.

HMDI Extender: The HDMI to SDI Adapter converts HD or 4K HDMI inputs to a proprietary, encrypted SDI with embedded audio signal. This SDI signal can be routed very far distances using a small, lightweight coax cable. The SDI to HDMI Adapter then converts this SDI signal back to HDMI 1.4/2.0 .

An Ethernet connection is required between the two adapters for end-to-end HDCP authentication. Ethernet also used for firmware updates.
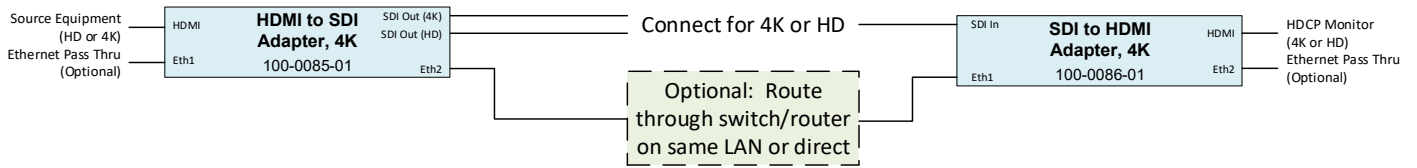
2 Port Ethernet Switch: Daisy chain Ethernet connections as required.

HDSDI input supports digital audio/video SDI input formats of 3G and HD (SMPTE 424M Level A and SMPTE 292M). The input supports HDCP 2.2 encrypted 4Kp60 HDR video over a 3G-SDI data stream and embedded audio per SMPTE 299M.
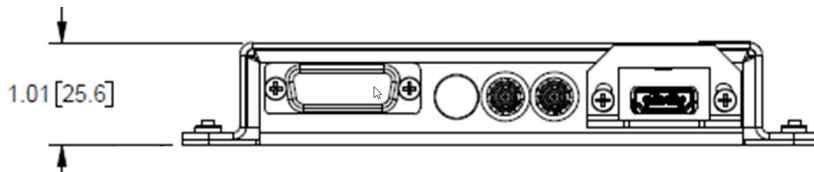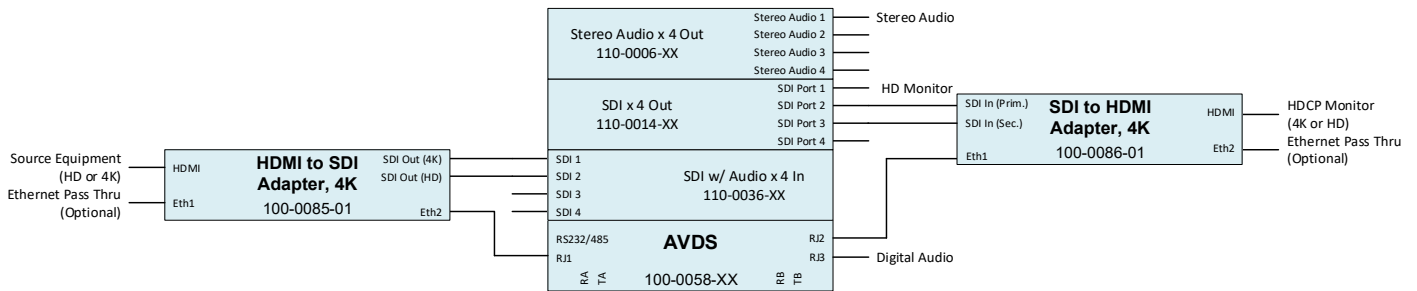
KEY BENEFITS

- Latency Free Video Distribution

- Built-In Video Up-Scaling and Down-Scaling

- Save weight by reducing heavy HDMI cable runs

- Audio embedded over Video

- HDMI 1.4 with HDCP 1.4

- HDMI 2.0 with HDCP 2.2

- Easily Integrates with CMS/IFE Systems

- DO-160 Testing

![Innovative Advantage]

HDMI Converters standalone

| Source Equipment (HD or 4K) → HDMI | **HDMI to SDI Adapter, 4K** 100-0085-01 | SDI Out (4K) / SDI Out (HD) | Connect for 4K or HD | SDI In | **SDI to HDMI Adapter, 4K** 100-0086-01 | HDMI → HDCP Monitor (4K or HD) |

Ethernet Pass Thru (Optional) → Eth1 ... Eth2

Optional: Route through switch/router on same LAN or direct

Ethernet Pass Thru (Optional) → Eth1 ... Eth2

HDMI Converters in AVDS network

Stereo Audio x 4 Out 110-0006-XX — Stereo Audio 1 / Stereo Audio 2 / Stereo Audio 3 / Stereo Audio 4 → Stereo Audio

SDI x 4 Out 110-0014-XX — SDI Port 1 / SDI Port 2 / SDI Port 3 / SDI Port 4 → HD Monitor

SDI w/ Audio x 4 In 110-0036-XX — SDI 1 / SDI 2 / SDI 3 / SDI 4

AVDS 100-0058-XX — RS232/485 / RJ1 / RA TA / RJ2 / RJ3 / RB TB → Digital Audio

Source Equipment (HD or 4K) → HDMI — **HDMI to SDI Adapter, 4K** 100-0085-01 — SDI Out (4K) / SDI Out (HD) / Eth2

Ethernet Pass Thru (Optional) → Eth1

SDI In (Prim.) / SDI In (Sec.) — **SDI to HDMI Adapter, 4K** 100-0086-01 — HMDI → HDCP Monitor (4K or HD) / Eth2

Ethernet Pass Thru (Optional) → Eth1

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DIMENSIONS	
Height	1.0 in. (2.54 cm)
Width	6.25 in. (15.88 cm)
Depth	4 in. (10.16 cm)
Weight	1 lb (nominal)
Power	0.5A @ 28VDC (nominal)

SIGNALS SUPPORTED	
HD-SDI	4Kp60 (SMPTE RDD35)1080p60, 1080i30, 720p60, 576i25, 480i30, SMPTE 424M, SMPTE 292M, 259M-C
HDMI™ / DVI-D	HDMI™ version 2.0 w/HDCP 2.2 and version 1.4 w/HDCP 1.4 4K60 w/ HDR, 1080i25/30, 720p50/60, 576i25, 480i30
Gigabit Ethernet	2