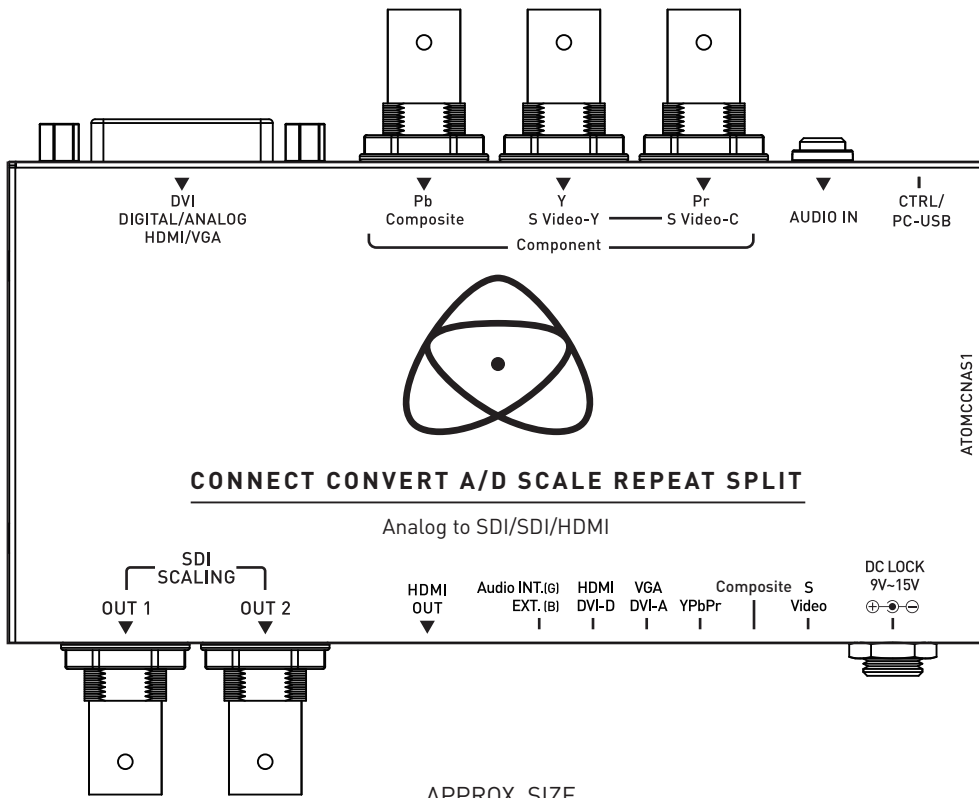




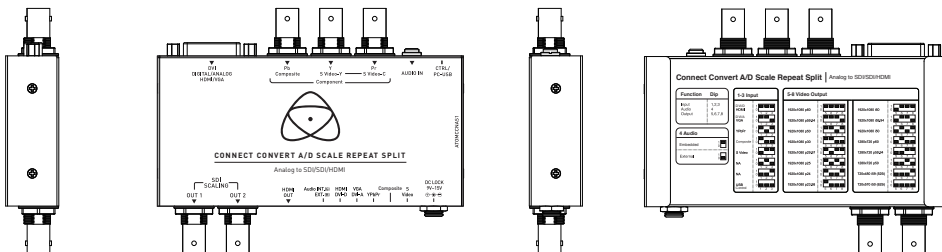
ATOMCCN-AS1

# CONNECT CONVERT A/D SCALE REPEAT SPLIT

## ANALOG TO SDI/SDI/HDMI



APPROX. SIZE

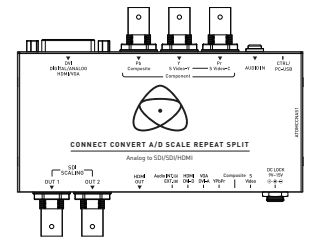


**DATASHEET**

ATOMCCN-AS1

# CONNECT CONVERT SCALE

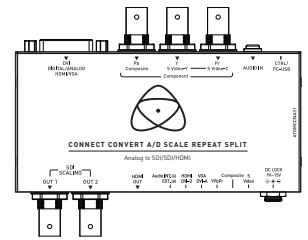
## ANALOG TO SDI/HDMI



CONNECT CONVERT SCALE   ANALOG TO SDI/HDMI	
<b>FEATURES</b>	Converts Input from DVI-D/VGA or Component/S-Video/Composite Video Output to 3G/HD/SD-SDI
	Built-In Hardware Scaling Engine with Anti-Aliasing
	Simultaneous 2xSDI & 1xHDMI Output
	Video Enhancement with Anti-Aliasing and 3D Deinterlacer
	Digital RGB and analog RGB signals up to 3G resolution can be input.
	Text Label output with input & output resolutions / Frame rates
	Test pattern output with multiple pattern options
	Custom Regions of interest selection with dot by dot or full screen scaling
	Live adjustments for Brightness, Contrast, Hue, Saturation via USB control
	Low operating Temperature
	1 Year Warranty - Upgradeable to 3 Years on Registration
	DC or USB powerable
	Detachable Rack Ears
	Firmware Upgradeable Through Micro-USB Port
<b>PHYSICAL FEATURES</b>	129mm x 22mm x 63.6mm (W x H x D)
	159mm (W inc. detachable rack ears)
	312g (single unit)
	334.2g (inc. detachable rack ears)
	22.2g (detachable rack ears only)
<b>HDMI / DVI-D INPUT</b>	<b>SD</b>
	720 x 480 i 59.94, 720 x 576 i 50,
	720 x 480 p 59.94 / p 60, 720 x 576 p 50,
	<b>HD</b>
	1280 x 720 p 59.94 / p 60 / p 50,
	1920 x 1080 i 59.94 / i 60 / i 50,
	1920 x 1080 p 23.98 / p 24 / p 25 / p 29.97 / p 30,
	3G: 1920 x 1080 p 59.94 / p 60 / p 50
	<b>VESA</b>
	1680 x 1050 p60 / 1600 x 1200 p60 / 1440 x 1050 p60 /
	1440 x 900 p 60/1400 x 10 50 p 60/1366 x 768 p 60 /
	1280 x 1024 p60 / 1280 x 960 p60 / 1280 x 800 p60 /
1280 x 720 p60 / 1024 x 768 p60 / 800 x 600 p60 /	
640 x 480 p60	
<b>VGA / DVI-A INPUT</b>	720 x 480 p 59.94, p 60/720 x 576 p 50
	<b>HD-SDI</b>
	1920 x 1080 p 60/1680 x 10 50 p 60/1600 x 1200 p 60 /
	1440 x 1050 p 60/1440 x 900 p 60/1400 x 10 50 p 60 /
	1366 x 768 p 60/1280 x 102 4 p 60/1280 x 960 p 60 /
	1280 x 800 p 60/1280 x 720 p 60/1024 x 768 p 60 /
800 x 600 p 60/640 x 480 p 60	
<b>COMPONENT (YCBCR) INPUT</b>	<b>SD</b>
	720 x 480 i 59.94 / 720 x 576 i 50
	<b>HD</b>
	1280 x 720 p 59.94, p 50/1920 x 1080 i 59.94, i 50 /
	1920 x 1080 p 23.98, p 24, p 25, p 29.97, p 30
<b>3G</b>	
1920 x 1080 p 59.94, p 60, p 50	
<b>COMPOSITE (CVBS) / S-VIDEO INPUT</b>	720 x 480 i 59.94 (setup level 0 IRE / 7.5 IRE) /
	720 x 576 i 50

# CONNECT CONVERT SCALE

## ANALOG TO SDI/HDMI



<b>HDMI OUTPUT</b>	<b>SD</b>
	720 x 480 i 59.94, 720 x 576 i 50,
	720 x 480 p 59.94 / p 60, 720 x 576 p 50,
	<b>HD</b>
	1280 x 720 p 59.94 / p 60 / p 50,
	1920 x 1080 i 59.94 / i 60 / i 50,
	1920 x 1080 p 23.98 / p 24 / p 25 / p 29.97 / p 30, 1920 x 1080 p 59.94 / p 60 / p 50
<b>SDI OUTPUT</b>	<b>SD-SDI</b>
	720 x 480 i 59.94, i 60/720 x 576 i 50
	720 x 480 p 59.94, p 60/720 x 576 p 50
	<b>HD-SDI</b>
	1280 x 720 p 59.94 / p 60 / p 50
	1920 x 1080 i 59.94 / i 60 / i 50,
	1920 x 1080 p 23.98 / p 24 / p 25 / p 29.97 / p 30,
<b>3G-SDI</b>	
3G-SDI Level A: 1920 x 1080 p 59.94 / p 60 / p 50	
<b>HDMI OUTPUT</b>	HDMI Ver.1.3a, HDCP not supported, CEC non-compliant
<b>SDI OUTPUT</b>	3G-SDI Level A Direct image format mapping (SMPTE 425M)
	HD-SDI (SMPTE 292 M)
	SD-SDI (SMPTE 259 M)
<b>OUTPUT TERMINAL</b>	2 x Up/Down Converted SDI
	1 x SDI loop through
<b>SUPPORTED VIDEO OUTPUT FORMAT</b>	Re-Clocked and Amplified SDI Port
	As Input SDI Format
	Up/Down Converted SDI Port
	1080p60/50, 1080i60/50, 1080p30/25/24, 720p60/50
	1080p59.94, 1080i59.94, 720p59.94, 1080p29.97, 1080p23.98
525i, 625i	
<b>INPUT TERMINAL</b>	BNC (SDI) x 1
	DVI-I (DVI-D + DVI-A) x 1
	BNC (YPbPr or S-Video + CVBS) x 3
	3.5mm MiniJack x 1
<b>AUDIO INPUT</b>	HDMI embedded audio (up to 8 channels supported)
	Unbalanced analog / audio input (stereo mini jack, 2ch compatible)
<b>AUDIO OUTPUT</b>	HDMI embedded audio (LPCM, Max. 8 ch, fs = 32 kHz to 192 kHz)
	SDI embedded audio (LPCM, Max. 8 ch, fs = 48 kHz)
<b>I / O DELAY</b>	Scaler mode: Up to 2 frames.
	Pass Through mode: Up to 2 lines
<b>DC INPUT VOLTAGE</b>	9V - 15V DC (Barrel Connector, 5.5mm, 2.1mm Center)
<b>OPERATING TEMPERATURE</b>	0° C to 50° C [32° F to 122° F]