

# TBS190 SDI, DV & composite broadcast quality synchronizer & time base stabilizer

The **TBS190** is a multi-standard broadcast quality synchronizer, noise reducer and time base stabilizer with SDI, DV, composite and YC interfaces. Embedded audio is processed as well as providing options for AES and analog audio interfaces. Featuring 12-bit sampling, 10-bit processing and rugged inputs, the TBS190 is equally suited to digitizing broadcast grade sources as with unstable, noisy sources. There are 3 variants of TBS190D with SDI, Y/C and composite video. Supporting embedded audio and either balanced AES, unbalanced AES or analog audio. There are 3 variants of TBS190DV with DV, SDI, Y/C and composite video. Supporting embedded audio and either balanced AES, unbalanced AES or analog audio.

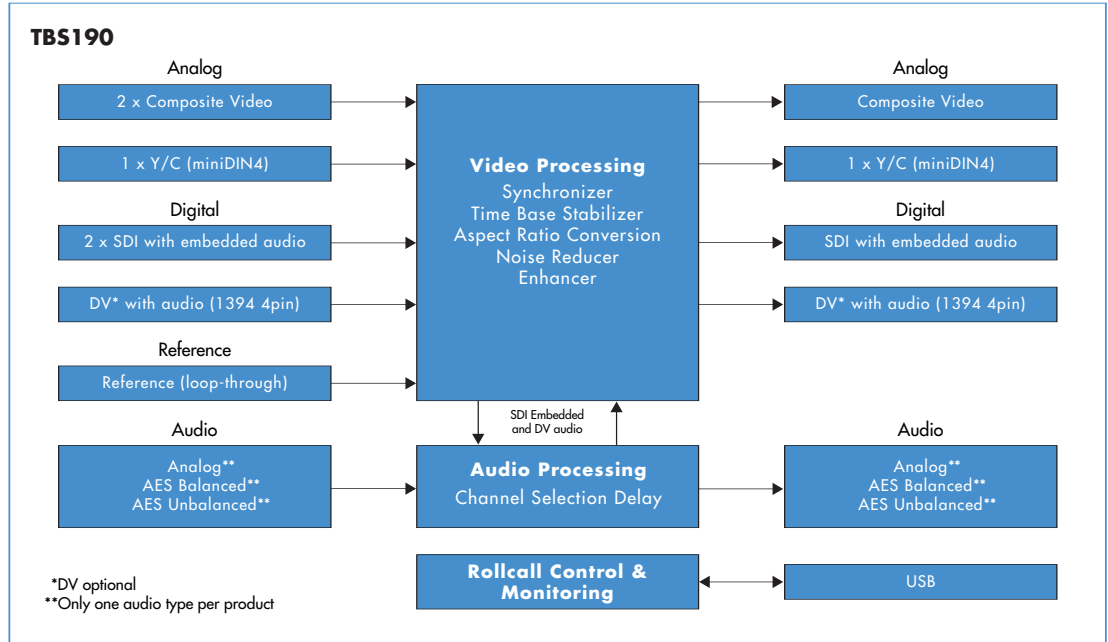


## Features

- SDI, DV, composite & YC Synchronization
- Time base stabilization
- Adaptive recursive noise reduction with automatic noise level detection
- 12-bit decoding with 5-line comb filter
- 12-bit encoding
- Inputs PAL, NTSC, NTSC-J, NTSC4.4, PAL-N, PAL-M, SECAM with automatic input detection
- Outputs PAL, NTSC, NTSC-J, PAL-N, PAL-M
- 4 channel (2 pair) embedded audio processing
- Seamless PCM audio tracking delay with manual offset - up to 2.5s
- Pass through for all HANC/VANC data
- Composite inputs tolerant to noise & errors
- Unique genlock 'Floating mode'
- RollCall compatible via USB link
- Video gain, black level, chroma gain, NTSC hue
- Options for balanced / unbalanced AES and balanced analog interfaces
- Compact ½ rack width with optional rack mount kit. Low power (no fan)

## Applications

- Universal analog / digital interface
- Audio embedding & extraction
- Satellite down-link & radio links
- Ingest / PC capture pre-processing
- Duplication
- VHS dubbing
- Format conversion



**Ordering Options**

**Model**

Order Code  
Description

**TBS190AD**

3548602  
SDI and composite synchronizer and time base stabilizer with embedded and analog audio

**Model**

Order Code  
Description

**TBS190BD**

3548603  
SDI and composite synchronizer and time base stabilizer with embedded and balanced AES audio

**Model**

Order Code  
Description

**TBS190UD**

3548604  
SDI and composite synchronizer and time base stabilizer with embedded and unbalanced AES audio

**Model**

Order Code  
Description

**TBS190ADV**

3548605  
DV, SDI and composite synchronizer and time base stabilizer with embedded and analog audio

**Model**

Order Code  
Description

**TSB190BDV**

3548606  
DV, SDI and composite synchronizer and time base stabilizer with embedded and balanced AES audio

**Model**

Order Code  
Description

**TBS190UDV**

3548607  
DV, SDI and composite synchronizer and time base stabilizer with embedded and unbalanced AES audio

Company policy is one of continuous product improvement. Specifications are therefore subject to change without notice.

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# CVR600 SDI, DV & composite broadcast quality standards converter & synchronizer

The **CVR600** is a multi-standard broadcast quality 12-bit sampling, 10-bit processing standards converter, synchronizer, aspect ratio converter, noise reducer and time base stabilizer with SDI, DV, composite and Y/C interfaces. Standards conversion between 525 and 625 line standards (NTSC/PAL) employs a powerful 20 point, 4-field, 5-line interpolation aperture to give smooth motion and maximum vertical resolution. Embedded audio is processed as well as providing options for AES and analog audio interfaces. There are 3 variants of CVR600D with SDI, Y/C and composite video. Supporting embedded audio and either balanced AES, unbalanced AES or analog audio. There are 3 variants of CVR600DV with DV, SDI, Y/C and composite video. Supporting embedded audio and either balanced AES, unbalanced AES or analog audio.

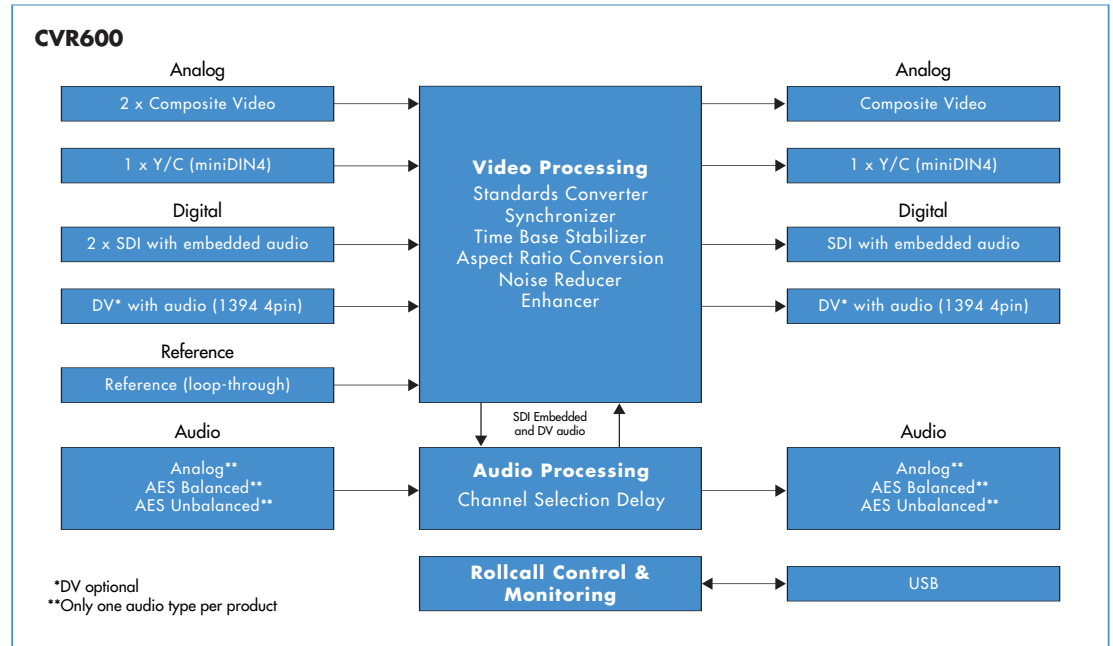


## Features

- Standards converter & aspect ratio converter
- Synchronization & time base stabilization
- ARC with presets and size controls
- Adaptive recursive noise reduction with automatic noise level detection
- 20 point vertical-temporal aperture
- 12-bit decoding with 5-line comb filter
- 12-bit encoding
- Inputs PAL, NTSC, NTSC-J, NTSC4.4, PAL-N, PAL-M, SECAM with automatic input detection
- Outputs PAL, NTSC, NTSC-J, PAL-N, PAL-M
- 4 channel (2 pair) embedded audio processing
- Seamless PCM audio tracking delay with manual offset - up to 2.5s
- Pass through for all HANC/VANC data in synchronize mode
- Options for balanced / unbalanced AES and balanced analog interfaces
- Unique genlock 'Floating mode'
- Composite inputs tolerant to noise & errors
- Video gain, black level, chroma gain, NTSC hue
- RollCall™ compatible via USB link
- Compact ½ rack width with optional rack mount kit. Low power (no fan)

## Applications

- Universal Analog / Digital interface
- Audio embedding & extraction
- Satellite down-link & radio links
- Ingest / PC capture pre-processing
- Duplication
- VHS dubbing



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**Ordering Options**

<b>Model</b> Order Code Description	<b>CVR600AD</b> 3598402 SDI and composite standards converter, synchronizer and time base stabilizer with embedded and analog audio	<b>Model</b> Order Code Description	<b>CVR600BDV</b> 3598406 DV, SDI and composite standards converter, synchronizer and time base stabilizer with embedded and balanced AES audio
<b>Model</b> Order Code Description	<b>CVR600BD</b> 3598403 SDI and composite standards converter, synchronizer and time base stabilizer with embedded and balanced AES audio	<b>Model</b> Order Code Description	<b>CVR600UDV</b> 3598407 DV, SDI and composite standards converter, synchronizer and time base stabilizer with embedded and unbalanced AES audio
<b>Model</b> Order Code Description	<b>CVR600UD</b> 3598404 SDI and composite standards converter, synchronizer and time base stabilizer with embedded and unbalanced AES audio		
<b>Model</b> Order Code Description	<b>CVR600ADV</b> 3598405 DV, SDI and composite standards converter, synchronizer and time base stabilizer with embedded and analog audio		