DTS OFFERS DECODING AND POST-PROCESSING SOLUTIONS that deliver a premium and immersive audio entertainment experience from home A/V products such as AVR and Soundbar systems. With DTS audio solutions, CE manufacturers can add greater value by satisfying the growing consumer demand for high performance audio to accompany their high definition video experience. Additionally, to ensure the best possible sound from AVRs and Soundbars, DTS offers Licensees superior global field support and tuning expertise to optimize the performance of each model.

DTS POST-PROCESSING SOLUTIONS

DTS STUDIO SOUND II™ is our flagship post processing suite. It includes all the features of Studio Sound and more. Multichannel Virtualization with multi-channel output provides a more impressive and accurate virtual surround experience while the Multiband Hard Limiter allows for maximum system output without artifacts. Our Next–Gen Bass Enhancement technology extends bass perception beyond the physical limitations of the speakers while Next-Gen Multi-Band TruVolume eliminates annoying volume fluctuations. Signal-Dependent Processing tracks the input signal to apply the proper amount bass and high frequency enhancement for perfect tonality.

DTS SOUND II includes Multichannel Virtualization for a more impressive and accurate virtual surround experience. Its Next–Gen Bass enhancement technology extends bass perception beyond the physical limitations of the speakers while Dialog enhancement improves dialog clarity in soundtracks. The Multi-Band Hard Limiter helps protect the system from overload and damage.

DTS STUDIO SOUND post-processing creates virtual surround sound for an immersive surround experience. Volume Leveling smooths transitions between sources and when changing channels while bass enhancement improves bass perception for a more dynamic experience. Speaker EQ lets you maximize performance of the system and Dialog Enhancement improves dialog clarity in soundtracks. The Single Band Hard Limiter helps protect the system from overload and damage.

DTS DECODER SOLUTIONS

DTS:X is Sound Unbound. It is able to scale immersive soundtrack presentations across a wide range of playback systems, from efficient to extravagant, while staying true to the content creator's vision.

IMMERSIVE
DTS:X places sound where it would occur naturally in space, creating the most lifelike, multi-dimensional audio experience ever.

BACKWARDS COMPATIBLE
Your movie collection gets a new lease on life! Rest assured that our celebrated catalog of DTS-*HD* Master Audio soundtracks are best heard with DTS:X. Take your favorite Blu‑ray DVD or digital movie to new heights

FLEXIBLE
We made sound move so your speakers don't have to. Because DTS:X doesn't require any specific speaker layout, you can arrange your home theater system however you want.

OBJECT-BASED AUDIO
Free from channel restrictions, sound can be placed and moved to where you would hear it in the real world – from planes above you, to crowds around you, to everything in between – delivering great sound in virtually any speaker layout

INTERACTIVE
You are in control of your listening experience. That hard-to-hear line in a movie can be improved at a touch – lift the dialogue out from the background sounds when you want clarity and experience a more personalized entertainment experience.

LOSSLESS
We are known for delivering the highest quality audio experience without compromise. Like its predecessor DTS-*HD* Master Audio, DTS:X supports lossless encoding, reserving fidelity to deliver a pristine listening experience.

DTS DECODERS DECODED

FEATURE/DECODER		dts 2.0 Channel	dts Digital Surround	dts-HD	dts-HD Master Audio	dts-HD	dts-HD Master Audio	dts-HD Master Audio 7.1	dtsX
BASIC	Solution Base	CA	CA	Master Audio	Master Audio	M6	M8	M8	E1
	Decoded Audio Channels	2.0	5.1	2.0, 5.1	7.1	2.0, 3.1, 5.1	2.0, 3.1, 5.1	7.1	11.2
	Max Sampling Rate	48 kHz	48 kHz	96 kHz	192 kHz	96 kHz	192 kHz	192 kHz	192 kHz
STREAMING + DOWNLOAD CONTENT	DTS Express (Primary)			*Up to 5.1 ch	*Up to 5.1 ch	Up to 5.1 ch	Up to 5.1 ch	Up to 7.1 ch	Up to Immersive
	Layered Audio Support					✓	✓	✓	✓
	Headphone:X Audio Mix Playback					✓	✓	✓	✓
	Lossless Audio (Stand-alone)			✓*	✓*	✓	✓	✓	Channels & Objects
LEGACY CONTENT	DTS Express (Secondary)			Up to 5.1 ch	Up to 5.1 ch	Up to 5.1 ch	Up to 5.1 ch	Up to 7.1 ch	Up to 7.1 ch
	Lossless Audio (with Core – BD)			✓	✓		✓	✓	✓
MISC.	Speaker Remapping				✓			✓	Immersive
	Upmixing/Spatial Rendering			Neo:6 (5.1)	Neo:6		Neo:6 (5.1)	Neo:6	Neural:X (Immersive)
	Neo:6 (ES Matrix Decoding)				✓			✓	Neural:X (Immersive)
	Object Based Audio Decode/Rendering								✓
	Dialog Control								✓

*Source Device Implementations may not support Coreless, Lossless, and DTS Express Primary

When DTS decoders are implemented in automotive, computer, game, mobile, or connected home A/V products (offering stereo and/or multichannel playback), consumers gain the most immersive surround sound experiences available from physical discs (DVDs, BDs), digital delivery, popular streaming, video-on-demand (VOD), and file-based and broadcast content sources. Consumers also get backwards compatibly providing playback of legacy audio streams that accompany a vast library of CDs, DVDs and BDs.

When consumers purchase consumer electronics products that display DTS decoder logos, they can expect the most advanced sound quality available from DTS audio streams – up to lossless quality, for sound that is exactly as the artist intended it to be heard. And CE manufacturers and application developers can feel confident that the choice to use a DTS decoder today is a decision to give your customers the best surround sound decoding technology available now and in the future.