

HEVC Decoding in Consumer Devices

Description: The new video compression standard, HEVC, is expected to be finalized in early 2013. This report looks at the ability of various devices to decode HEVC now and in the future through software and hardware implementations.

Worldwide unit shipment and installed base forecasts are provided from 2011-2016 for smartphones, tablets, PCs, portable media players, streaming media players, video game consoles, Blu-ray players, digital TV sets, and set-top boxes capable of decoding HEVC.

The new video compression standard jointly developed by the ITU and MPEG is almost complete. The standard is expected to be finalized in January 2013. Many vendors of encoders, decoders, transcoders, and SoCs are readying products now for shipment as soon as the standard is complete. Others will move into production later in 2013.

MRG believes HEVC compression will be adopted most quickly for Internet video streaming over wired and wireless networks to both tethered and mobile devices. The bandwidth savings of about 50% over H.264, which is often used today, will reduce demand on networks and save transmission costs.

Some consumer products like TVs and set-top boxes will wait for hardware solutions that integrate HEVC decoding. Others like PCs and mobile devices will take advantage of software decoding that will run on the host CPU.

The large number of mobile devices and PCs that ship each year will provide all the shipments of consumer devices with HEVC decoding capability in the early years of the forecast enabling the units shipped each year to reach one billion in 2012. In 2014, TVs and the devices that connect to them will start to ship with HEVC decoding integrated, which will push the market past the two billion per year mark in 2016.

The deliverable is comprised of a PDF and Excel spreadsheet.

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