10 GHz Multicore DSP Delivers 3x the Channel Density for Multimedia Gateways and IMS Media Servers

DALLAS, /PRNewswire/ -- Responding to the growing need for increasing channel densities and higher quality media services in mobile networks, Texas Instruments Incorporated (TI) is offering the industry's highest performance multimedia solution based on its TMS320C6678 digital signal processor (DSP).

Ideal for applications such as multimedia gateways, IMS media servers, video conferencing servers and video broadcast equipment, the C6678 offers OEMs a highly dense media solution that is both power and cost efficient at the system level. Based on its newest DSP generation of devices, the TMS320C66x, TI's C6678 features eight 1.25 GHz DSP cores with 320 GMACs and 160 GFLOPs of combined fixed- and floating-point performance on a single device, enabling users to consolidate multiple DSPs to save board space and cost, as well as reduce overall power requirements.

To ease application development, TI's new multimedia solution includes a comprehensive portfolio of video, audio and voice codecs, which will be accessible through TI's website. The available portfolio of video codecs includes the H.264, H.263, MPEG4, MPEG2, JPEG, VC1, Soren Spark encoders and decoders. New codecs and functions including Universal SVC, MVC, AVC Intra and H.265 are also supported on the C6678 DSP.

The portfolio of audio codecs includes the AAC, AACv2, AC3, MP3, WMA8, WMA9 encoders and decoders. The codec portfolio also includes a comprehensive set of wireline and wireless voice codecs.

Combined with the multicore software developer's kit (MC-SDK), suite of multicore tools, free codecs and a rich ecosystem of software and hardware partners, the power of TI's multicore DSP enables customers to develop new multimedia infrastructure products that offer greater channel densities, at lower power levels and more cost efficiently. The C6678 is also software compatible with TI's existing TMS320C6000™ DSPs, enabling vendors to reuse their existing software and preserve their investment in TI embedded processors.

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