

FRAUNHOFER INSTITUTE FOR INTEGRATED CIRCUITS IIS

PRESS RELEASE

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MStar T12 UHD TV SOC Platform Incorporates Fraunhofer MPEG-H TV Audio System Decoding Capabilities

Erlangen, Germany/Hsinchu, Taiwan: Fraunhofer Institute for Integrated Circuits IIS, the world-renowned experts in audio and media technologies, and MStar Semiconductor Inc., a leader in application-specific ICs for the consumer and communication product markets, announce the immediate availability of the MPEG-H TV Audio System decoder in MStar's 4K mainstream TV system-on-chip (SOC) platform T12.

The MPEG-H TV Audio System, which is part of the ATSC 3.0 and DVB standards, was the first next-generation audio codec to go on the air as Korea chose it as the sole audio codec for its terrestrial UHD TV broadcasting system that launched in May 2017.

The MPEG-H TV Audio System makes a whole new auditory experience possible, enabling the viewer to be wrapped up in 3D immersive sound and to adjust the audio mix to their preference. Universal delivery ensures that the best sound is delivered regardless of the device, whether it's a home theatre, smartphone or virtual reality device. The advanced capabilities of the MPEG-H TV Audio System also allow for the transmission of streaming and television audio content with a cost-effective benefit for both broadcasters and streaming services.

The T12 is MStar's mainstream UHD SOC platform. Supporting ATSC 3.0 and DVB T2/S2 in connection with HEVC and HDR, it is typically used for high to middle end television products. With the addition of the MPEG-H TV Audio System decoder, the MStar T12 becomes even more versatile and attractive in the UHD market.

The MStar T12 SOC with MPEG-H TV Audio System decoding support is available immediately to interested manufacturers.

Head of Corporate Communications

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To learn more about the MPEG-H TV Audio System, visit
www.iis.fraunhofer.de/tvaudio.

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Statements:

“The support of the MPEG-H TV Audio System in MStar’s T12 SOC is another huge step forward in providing solutions with next-generation audio features to the market. We are delighted to have worked with MStar Semiconductor on their adoption of the MPEG-H TV Audio System and look forward to continuing this collaboration in order to enable even more advanced products,”

Harald Popp, head of the Business department at Fraunhofer IIS’ Audio and Media Technologies division.

“We are pleased to be partnering with Fraunhofer to realize a next generation audio codec on our UHD TV SOC platform. Leveraging our highly-integrated ICs, MPEG-H can fully bring an amazing experience for consumers. With Fraunhofer’s dedicated support, MStar will continue to contribute to the advancement of the TV industry”.

Sean Lin, Corporate VP, MStar

About MStar Semiconductor, Inc.

MStar Semiconductor, Inc. ("MStar") is a world-class leader in Application Specific ICs ("ASIC") with a focus on consumer electronic products and communication applications. Since its inception in 2002, MStar has established a strong brand and leadership position in LCD controllers, analog and digital TVs, and set-top boxes by fully leveraging its core expertise of cutting-edge design capabilities, continuous innovation, and premier customer-focused services. Headquartered in Taiwan, MStar has a comprehensive global footprint of international R&D and customer support centers to provide a full range of total solutions for various consumer electronic applications. Please visit www.mstarsemi.com for more information.

IN COOPERATION WITH

**MStar**
semiconductor

About Fraunhofer IIS

The Audio and Media Technologies division of Fraunhofer IIS has been an authority in its field for more than 25 years, starting with the creation of mp3 and co-development of AAC formats. Today, there are more than 10 billion licensed products worldwide with Fraunhofer's media technologies, and over one billion new products added every year. Besides the global successes mp3 and AAC, the Fraunhofer technologies that improve consumers' audio experiences include Cingo® (spatial VR audio), Symphoria® (automotive 3D audio), xHE-AAC (adaptive streaming and digital radio), the 3GPP EVS VoLTE codec (crystal clear telephone calls), and the interactive and immersive MPEG-H TV Audio System.

With the test plan for the Digital Cinema Initiative and the recognized software suite easyDCP, Fraunhofer IIS significantly pushed the digitization of cinema. The most recent technological achievement for moving pictures is Realception®, a tool for light-field data processing.

Fraunhofer IIS, based in Erlangen, Germany, is one of 69 divisions of Fraunhofer-Gesellschaft, Europe's largest application-oriented research organization.

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