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For ESS

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For Yamaha

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Yamaha selects ESS's SABRE³² Ultra and SABRE Premier DACs For Its Award Winning AVENTAGE series of A/V Receivers

FREMONT, Calif., September 16, 2013— ESS Technology, a leading provider of high performance audio/video solutions, today announces that the ES9016 SABRE³² Ultra 8-channel DAC and SABRE Premier 8-channel DAC are shipping in volume in Yamaha's latest AVENTAGE series of network AV receivers including the RX-A3030, RX-A2030 and RX-A1030, all award winners in Japan's prestigious 2013 Summer Visual Grand Prix (VGP), as well as the flagship CX-A5000 A/V pre-amplifier available in the USA (http://usa.yamaha.com/products/audio-visual/aventage/cx-a5000_black_u/).

By adopting the ESS SABRE³² Ultra and SABRE Premier DACs, the new AVENTAGE A/V receivers acquire ESS's critically acclaimed SABRESOUND™ featuring spectacular audio, unsurpassed sound stage and jitter-free music clarity to compliment Yamaha's outstanding audio processing technologies and amplifiers to deliver the purest, best-sounding audio to the discerning home entertainment enthusiasts.

Unlike conventional sigma-delta ($\Sigma\Delta$) DACs, the ES9016 SABRE³² Ultra DAC incorporates ESS's innovative patented HyperStream™ circuits to deliver spectacular music with up to 128dB

dynamic range and 0.0003% (-110dB) total harmonic distortion, free from clock jitter common in digital audio systems. The 32-bit HyperStream™ modulator is capable of 100% modulation and unconditional stability; the Revolver™ Dynamic Element Matching ensures performance over a wide dynamic range, while a Time Domain Jitter Eliminator removes the digital jitter that causes distortion.

The ES9016 SABRE³² Ultra Audio DAC supports 8-channel or stereo conversion from digital audio input in PCM, DSD or SPDIF formats, features click-free soft mute, volume control, de-emphasis, programmable zero detect, per-channel customizable roll-off filter characteristics and consumes less than 100mW.

The ES9006 SABRE Premier 8-channel DAC, with 120dB DNR and -102dB THD, was introduced in 2008 and has been prominently featured and used in many high performance Blu-ray players, A/V receivers, professional and consumer A/V equipments.

Yamaha's AVENTAGE AV Receiver Division Chief Developer commented: "We have recently introduced the latest AVENTAGE AV receiver series (RX-A1030/A2030/A3030) together with the long-awaited high-end separate AV pre-amplifier CX-A5000. We could achieve superior signal-to-noise, dynamic and natural sound quality for the ultimate multi-channel home theater experience as well as high performance 2-channel playback by utilizing the ESS SABRE/SABRE³² DAC."

Robert Wong, vice-president of marketing and worldwide sales for ESS Technology, said, "We are thrilled that Yamaha has selected both the ES9016 SABRE³² Ultra DAC and ES9006 SABRE Premier DAC for its latest AVENTAGE A/V receivers. To experience SABRESOUND™ on A/V receivers, audio enthusiasts have until now been limited to analog sources equipped with SABRE D/A converters. By making the ES9016 SABRE³² Ultra DAC and ES9006 SABRE Premier DAC the centerpiece of the system architecture, these new Yamaha receivers will enable audio enthusiasts to fully enjoy SABRESOUND™ from all digital and analog sources without any compromise."

The ES9016 SABRE³² Ultra DAC and ES9006 SABRE Premier DAC are available now in 48-LQFP package. Sample chips, reference design and volume price information are available from ESS or your local ESS distributor and representatives.

About Yamaha

Since its founding in 1887, the Yamaha Group has developed its business activities focusing on musical instruments, audio products, Yamaha music schools, and other products and services related to sound and

music. We are pleased, indeed, that Yamaha touches on the lives of and brings joy to so many people around the world.

For more information, please visit: http://www.yamaha.com/about_yamaha/corporate/

About ESS Technology, Inc.

ESS Technology, Inc. designs and markets high-performance audio and video products for the consumer market.

ESS's products include the SABRE/SABRE³² series of Hyperstream™ audio DACs and ADCs, the Phoenix-III series of HD-Enhanced DVD Home Theater SoC, Crescendo series of Sound Bar SoC, Radix CMOS TV tuners, 1080p Video Up-converter, and the DMPX Media Processor.

ESS's SABRE³² audio DAC series is the world's highest performance 32-bit audio D/A converter solution, built upon the original SABRE audio DAC series first introduced in 2008. The SABRE³² and SABRE audio DACs have been designed into the world's most prestigious consumer, audiophile and professional equipments, including Blu-ray players, CD/SACD players, A/V preamps and digital audio workstations.

ESS is headquartered in Fremont, California, and has R&D, sales, and technical support offices worldwide. ESS Technology's web site address is: <http://www.esstech.com>.