



Synaptics AudioSmart Far-Field Voice Technology Featured in TCL's New Line of Alexa Built-In Televisions

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User Experience Enhanced through Highly Accurate Voice Recognition and Control

BERLIN and SAN JOSE, Calif., Aug. 31, 2018 (GLOBE NEWSWIRE) -- IFA 2018 - Synaptics Incorporated (NASDAQ: [SYNA](#)), the leading developer of human interface solutions, today announced its AudioSmart® far-field voice (FFV) technology has been designed into Alexa built-in televisions from TCL Corporation. TCL's new TVs with integrated AudioSmart FFV digital signal processors (DSPs) provide its customers with a premium user experience and the ability to control the television with their voice through Amazon Alexa. The new TCL TVs with Alexa and AudioSmart are being showcased this week at IFA 2018.

"The new TCL televisions featuring Amazon Alexa and Synaptics' AudioSmart technologies are designed with the same objective in mind: to leverage innovation to enhance how people experience the products we make," said Bryan Huang, director of Product Center at TCL. "Adding far-field voice recognition to our TV lineup provides consumers with a more natural and convenient viewing experience."

"TCL is demonstrating once again it's on the cutting-edge of consumer electronics by designing AudioSmart technology into its new line of televisions," said Saleel Awsare, corporate vice president and general manager, Audio and Imaging Business at Synaptics. "Thanks to its unmatched voice-command accuracy and enhanced features, AudioSmart enjoys wide-ranging applicability throughout the smart home and beyond."

Key AudioSmart FFV Features:

- **Voice Barge-in:** Enabled by full-duplex acoustic echo cancellation (AEC), the voice DSP can detect the wake-word even when playing loud movies
- **Smart Source Pickup:** Detects the user's voice and cancels out noise from all directions around the device (omnidirectionally), even if noise sources are coming from the same direction as the user
- **Energy Efficient Voice Functionality:** Enabled by the low-power Synaptics DSP, the TCL televisions meet all energy requirements for standby mode while still allowing use of natural voice at any time to turn the TV on and off

AudioSmart separates speech signals from background noises and processes only the human speech, providing superior recognition accuracy. AudioSmart delivers an exceptional end-user experience for all major Automatic Speech Recognition (ASR) services. Its barge-in technology is enabled by full-duplex acoustic echo cancellation that detects a device's "wake-word" and allows it to hear user requests even when other sounds, such as television or music playing, are present.

IFA 2018:

TCL will demonstrate the new line of Alexa built-in TVs with AudioSmart technology at this week's [IFA consumer-electronics tradeshow](#) in Berlin, Germany, Hall 21, Booth 102.

About Synaptics:

Synaptics is the pioneer and leader of the human interface revolution, bringing innovative and intuitive user experiences to intelligent devices. Synaptics' broad portfolio of touch, display, biometrics, voice, audio, and multimedia products is built on the company's rich R&D, extensive IP and dependable supply chain capabilities. With solutions designed for mobile, PC, smart home, and automotive industries, Synaptics combines ease of use, functionality and aesthetics to enable products that help make our digital lives more productive, secure and enjoyable. (NASDAQ: [SYNA](#)) www.synaptics.com.

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