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## MaxLinear Digital Channel Stacking Technology Powers dCSS SELFSAT Flat Satellite Antenna

- *MxL862 delivers simplified, single cable installation in revolutionary flat satellite antenna*

CARLSBAD, Calif.--(BUSINESS WIRE)-- MaxLinear Inc. (NYSE: MXL), a leading provider of radio frequency (RF) and mixed-signal integrated circuits for cable and satellite broadband communications, the connected home, data center, metro, long-haul fiber networks, and wireless infrastructure, today announced that its MxL862 Full-Spectrum Capture™ (FSC™) digital channel stacking switch (dCSS) system-on-chip (SoC) has been selected for the SELFSAT–H21DCSS, the industry’s first dCSS flat satellite antenna.

The SELFSAT–H21DCSS is a low-profile flat antenna measuring only 517mm x 277mm and represents a breakthrough in satellite antenna technology. It performs the same function as a parabolic satellite antenna but is unobtrusive and can be easily self-installed in homes and apartments. Manufactured by I DO IT Co. Ltd., Seoul, Korea, the SELFSAT–H21DCSS uses the MxL862 to digitize the entire satellite spectrum and deliver up to 32 user bands over a single cable for dramatically simplified installation and enhanced user experience.

The MxL862 is part of the MxL86x family of dCSS SoCs and features two FSC wideband RF inputs with a single L-band IF output. The device is a single-chip dCSS solution, integrating FSC analog-to-digital converters, a digital channel-stacking engine and a digital-to-analog converter for single-cable satellite signal distribution including filters, communication modems and a microcontroller. The single chip MxL862 dramatically reduces system costs and significantly reduces thermal design challenges.

The new SELFSAT–H21DCSS is part of a family of flat satellite antennas that also includes a SAT>IP version based on the MxL584 FSC receiver, for distribution of up to eight satellite TV channels to any connected device in the home.

“The MxL862 is a market proven solution for digital channel stacking applications and provides the lowest power, highest integration and best performance for the SELFSAT dCSS flat antenna, a product that delivers multi-channel satellite TV directly to consumers,” said Will Torgerson, MaxLinear Vice President & General Manager of Broadband Group. “From SAT>IP receivers to dCSS SoCs, MaxLinear is continuing to deliver innovative, best-in-class solutions to the market.”

“The appearance and installation of parabolic satellite antennas is still a significant drawback to the growth of the satellite TV market, which is what drove us to develop the SELFSAT

antenna,” said Seung Joon Im, CEO of I DO IT. “The single cable solution enabled by MaxLinear’s MxL862 adds installation convenience to our ground breaking product family while providing multi-channel support without compromises.”

### **Technical Highlights – MxL86x**

The MxL86x product family includes the MxL868, MxL865 and MxL862. The device family supports both FSK and DiSEqC communication protocols and is compliant with the EN50494 and EN50607 unicable standards. The devices come with a software environment that includes a real-time operating system running on an embedded 32-bit CPU with a complete set of APIs to control the band translation and channel stacking engine and the chip interfaces.

The ultra-small parts are packaged in a 10mm x 10mm QFN. The highly integrated devices also feature all major supporting analog functions, such as broadband input and output filters, RF gain blocks, PLLs and automatic gain control (AGC) functionality. Due to the high level of system integration, the bill of material (BOM) in end applications is reduced to a minimal number of low-cost, passive components, which enables ultra-compact, low-cost system solutions when compared to existing analog implementations.

### **About I Do It Co., Ltd.**

I DO IT Co., LTD is a manufacturer specialized in satellite flat antenna and HD wireless transmission technology. The company was founded in 2006 in South Korea by Seung Joon IM, its current CEO. The company possesses over 30 patents in its fields of expertise and aims to become a leading manufacturer for new antenna, wireless and IoT products based on the SAT>IP standard.

For more information: [www.selfsat.com](http://www.selfsat.com)

### **About MaxLinear, Inc.**

MaxLinear, Inc. (NYSE: MXL) is a leading provider of radio frequency (RF) and mixed-signal integrated circuits for cable and satellite broadband communications, the connected home, data center, metro, long-haul fiber networks, and wireless infrastructure markets. MaxLinear is headquartered in Carlsbad, California. For more information, please visit [www.maxlinear.com](http://www.maxlinear.com).

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### **Cautionary Note About Forward-Looking Statements**

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements include, among others, statements concerning or implying future financial performance or trends and growth opportunities affecting MaxLinear, including statements related to the performance of the MxL862. These forward-looking statements involve known and unknown risks, uncertainties, and other factors that may cause actual results to differ materially from any future results expressed or implied by these forward-looking statements. Forward-looking statements are based on management’s current, preliminary expectations and are subject to various risks

and uncertainties, including (among others) risks relating to integration of our recently announced acquisition of assets from Microsemi Corporation and our pending acquisition of assets from Broadcom; intense competition in our industry; the ability of our customers to cancel or reduce orders; uncertainties concerning how end user markets for our products will develop; our lack of long-term supply contracts and dependence on limited sources of supply; potential decreases in average selling prices for our products; currently pending intellectual property litigation; and the potential for additional intellectual property litigation, which is prevalent in our industry. In addition to these risks and uncertainties, investors should review the risks and uncertainties contained in MaxLinear's filings with the United States Securities and Exchange Commission, including our most recent Annual Report on Form 10-K for the fiscal year ended December 31, 2015 as amended by Amendment No. 1 filed with the SEC on April 28, 2016; our subsequent Quarterly Report on Form 10-Q for the quarter ended March 31, 2016; and our Current Reports on Form 8-K. All forward-looking statements are qualified in their entirety by this cautionary statement. MaxLinear is providing this information as of the date of this release and does not undertake any obligation to update any forward-looking statements contained in this release as a result of new information, future events, or otherwise.

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