

Press release

SES, Inverto, Abilis and MaxLinear revolutionise satellite TV home distribution with industry's first IP-LNB

New IP-LNB delivers satellite broadcast content to TVs, tablets, smartphones and PCs connected to the home IP network

LUXEMBOURG, April 22, 2013 – SES (NYSE Euronext Paris and Luxembourg Stock Exchange: SESG), Inverto, Abilis and MaxLinear Inc. (NYSE: MXL) today announced that they have been jointly designing an essential component for cost-effective IP distribution of satellite television to the home – the first low-noise block down-converter (LNB) that will incorporate eight-channel satellite-to-IP bridging technology.

The IP-LNB is a prototype device that will deliver eight concurrent channels from any of the transponders of a satellite orbital position. These channels may be forwarded via IP unicast or multicast to fixed and portable devices. Satellite signals will be distributed via Ethernet, power-line communications (PLC) or a Wi-Fi local area network (LAN). The technology can be used for free-to-air (FTA) or pay TV applications.

“The IP-LNB will give satellite television providers and consumers new options for distributing unmatched quality satellite television to multiple TVs, computers and tablets over IP at the lowest cost,” said Thomas Wrede, Vice President of SES Reception Systems. “When we committed ourselves to making SAT>IP an open standard, we envisioned this type of innovation. It is exciting to see it now come to fruition.”

The LNB is a crucial element of a satellite system, receiving signals collected by the satellite dish, amplifying and converting them to intermediate frequencies to be carried to the set-top box (STB).

By locating the satellite reception and the IP bridging functions in the antenna the IP-LNB will enable satellite content distribution to the home over a single Ethernet cable. The IP-LNB may be powered over that same cable through Power over Ethernet (PoE) technology, greatly reducing the overall system cost and power consumption.

This new technology enables the satellite signal to be sampled digitally directly at the antenna, making the satellite spectrum data and other link-quality metrics accessible over the LAN. These advancements greatly simplify the dish installation and enable remote monitoring from the LAN.

Designing such a novel LNB requires significant advances in satellite chipset and real-time IP streaming software technology in order to meet the unique system requirements on the size, power consumption, long-term reliability and price point required for a commercially viable outdoor unit (ODU).

The new device will combine SES' SAT>IP protocol innovations, [MaxLinear's Full-Spectrum Capture™](#) (FSC™) DVB-S2 receiver IC, [Abilis' TB101 Broadcast to Broadband](#)



Bridge™ (B³™) SoC, and [Inverto's](#) software stacks and a new high-performance LNB product design. Together, these technologies have produced a compact, cost effective and low-power eight-channel IP-LNB.

Availability

The IP-LNB technology was demonstrated at SES' Industry Days 2013 conference that was held on April 18 and 19 in Luxembourg. The parties are currently engaging with key customers to characterize various parameters for a first commercial IP-LNB product and its deployment schedule.

IP-LNB Key Features

- 10.7-12.75 GHz Ku-band RF, compliant to SES requirements
- 8-channel Full-Spectrum Capture™ DVB-S2 single-chip receiver
- Broadcast to Broadband Bridge™ SoC
- IP and real-time SAT>IP streaming software stacks and protocols.
- Gigabit Ethernet LAN connectivity, Wake-on-LAN
- Power-over-Ethernet Type I, less than 10W for 8-channel operation
- Remote spectrum, temperature and PHY metrics monitoring
- SW upgradeable over Ethernet and over satellite broadcast
- -40 to +65C operating temperature

Cautionary Note About Forward-Looking Statements

This press release contains “forward-looking” statements within the meaning of federal securities laws. Forward-looking statements include, among others, statements concerning or implying future financial performance or trends and growth opportunities affecting MaxLinear, in particular statements relating to the MxL584 Full-Spectrum Capture™ DVB-S2 receiver and its use in IP-LNBs. 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. We cannot predict whether or to what extent the use of the MxL584 in IP-LNBs will result in future revenues. Forward-looking statements are based on management's current, preliminary expectations and are subject to various risks and uncertainties, including (among others) 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; and on-going intellectual property litigation related to hybrid television tuner products. 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 (SEC), including risks and uncertainties identified in our Annual Report on Form 10-K for the year ended December 31, 2012. 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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About SES

SES is a world-leading satellite operator with a fleet of 52 geostationary satellites. The company provides satellite communications services to broadcasters, content and internet service providers, mobile and fixed network operators and business and governmental organisations worldwide.

SES stands for long-lasting business relationships, high-quality service and excellence in the broadcasting industry. The culturally diverse regional teams of SES are located around the globe and work closely with customers to meet their specific satellite bandwidth and service requirements.

SES (NYSE Euronext Paris and Luxembourg Stock Exchange: SESG) holds participations in Ciel in Canada and QuetzSat in Mexico, as well as a strategic participation in satellite infrastructure start-up O3b Networks. Further information under: www.ses.com.

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