

P3686H

Industry-First Satellite Demodulator from STMicroelectronics Opens Doors to Fast, Affordable Broadband for All

The world's first 500Mbaud High-Symbol-Rate (HSR) chip to increase bandwidth-usage efficiency and throughput in satellite Internet services

Geneva, May 4, 2015 – STMicroelectronics (NYSE: STM), a global semiconductor leader serving customers across the spectrum of electronics applications, has today announced the world's first 500Mbaud High-Symbol-Rate (HSR) satellite demodulator chip. The [STiD135](#) enables significantly more efficient bandwidth usage and increased throughput in satellite Internet provisioning when deployed with transponders aimed at using the higher frequency bands to send data via Ka-band communication satellites.

Compliant with DVB-S2, DVB-S2X and DVB-S2 Annex-M¹, this chip has been designed as part of the French Space Agency (CNES) THD-SAT² program, fostering the development of cost-efficient, fast broadband Internet access via High Throughput Satellite (HTS) at a performance equivalent to fiber-optic, ADSL, and 4G networks, taking advantage of the universal accessibility of satellite signals.

“The Digital Divide has been clearly identified as an important-to-address societal problem by National and Regional studies such as the European Union’s ‘Digital Agenda’³,” said Eric Benoit, Head of Product Line, Headed Platforms, Consumer Product Division, STMicroelectronics. “A fruit of our collaboration with CNES, the new satellite demodulator chip can deliver useful data throughput of up to 600 megabits per second in the Ka band. This represents a valuable step change to what has been available, while simultaneously optimizing the bandwidth efficiency that can be achieved in the lower-frequency Ku band. Together, this will help pave the way towards our common goal of ‘broadband for all’.”

¹ DVB-S2 (ETSI EN 302 307 part 1), DVB-S2X (ETSI EN 302 307 part 2) and DVB-S2 Annex-M parts of the DVB-S2 standard.

² The THD-SAT program of the French Space Agency (CNES) is supported by the French Government, via the program “Economie Numérique” of the PIA (“Programme d’Investissement d’Avenir”).

³ The state of Broadband 2014: Broadband for all (<http://www.broadbandcommission.org/documents/reports/bb-annualreport2014.pdf>)

“With THD-SAT our ambition is to bring a 10X cost reduction of bandwidth with High-Throughput Ka-band Satellite to distribute fast Internet services at 100/10 Mbps downlink/uplink that would complement, in a cost-efficient way, Fiber To The Home (FTTH) deployment outside densely populated areas,” said Jean-Philippe Taisant, Telecommunication Senior Project Manager, CNES. “The availability of STMicroelectronics’ STiD135 demodulator chip is key to enabling the development of affordable satellite broadband modems.”

The STiD135 is currently sampling and will be demonstrated during SES-Astra Industry Days, May 6-7 2015, in Luxembourg.

For more technical information, please visit ST’s [STiD135](#) pages or contact your local ST Sales Office.

About STMicroelectronics

ST is a global leader in the semiconductor market serving customers across the spectrum of sense and power and automotive products and embedded processing solutions. From energy management and savings to trust and data security, from healthcare and wellness to smart consumer devices, in the home, car and office, at work and at play, ST is found everywhere microelectronics make a positive and innovative contribution to people's life. By getting more from technology to get more from life, ST stands for life.augmented.

In 2014, the Company’s net revenues were \$7.40 billion. Further information on ST can be found at www.st.com.

For Press Information Contact:

STMicroelectronics
Michael Markowitz
Director Technical Media Relations
+1 781 591 0354
michael.markowitz@st.com