

# Modesat Communications – where more efficient communication takes place!



## WHO WE ARE:

Modesat Communications is a leading edge modulator/demodulator developer for satellite and terrestrial communications such as DVB-S2 and microwave radio. Users of our IP cores can benefit from cheaper, more efficient and dependable wireless communication due the deployment of our patented signal synchronization technology. Offered range of products maintain backward compatibility with existing standards while enhancing general performance of contemporary wireless solutions in the area of satellite communications, microwave radio, etc. The company enjoys a strategic investment from former Skype developers.

## COLLABORATION INTERESTS: REFERENCE PROJECTS:

Modesat Communications is interested in building partnership towards EU FP7-ICT projects focusing on physical layer development (IP cores) for different analogue as well as digital wireless systems. Our core competence is related to embedded systems, FPGA development, signal processing. We have premium expertise in satellite communications as well as microwave radio products on a physical level. We are looking to create further value for our customers in those segments, as well as establish ourselves in new markets such as TETRA, personal area networking, WiMax. Possible role in collaboration: research partner, technology provider.

**Development of linear synchronization scheme and satellite modem prototype, 2006-2008** (supported by the Estonian Government through Enterprise Estonia): Research and development project. Our role: co-ordinator, lead researcher.

**Development of DVB-S2 satellite modem for mobile environments, 2007-2008.** (supported by the Estonian Government through Enterprise Estonia, Centre of Excellence Programme): Research and development project. Our role: lead researcher.

## OTHER INFORMATION:

Name of the company: Modesat Communications

Legal structure: SME

Country: Estonia

Number of researchers: 11

Number of employees in total: 13

Working languages: English

Contact person: Tarmo Pihl

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WHAT  
MAKES US  
A GOOD  
PARTNER

- Provider of unique value adding technology
- Growing patent portfolio
- Strong experience in physical layer R&D
- Experience in national and European projects
- International reach and ambitions
- Flexible and fast moving

## AREAS FOR R&D COLLABORATION:

PHY layer (IP Core) development for wireless communication systems such as satellite, microwave, TETRA, WiMax, personal area network based on FPGA/DSP

Adaptation of its proprietary synchronization scheme to different communication platforms, deployment of linear demodulator for different applications

WIFI, WiMAX, Tetra and beyond  
New powerful communication technologies

For further information please look at  
[www.modesat.com](http://www.modesat.com)

*This profile has been developed under the HAGRID project. [www.hagridproject.net](http://www.hagridproject.net)*



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