



Spin-off from VUB Laboratory for Micro & Photon Electronics.

Established in 2005.

Milestones

- **2007:** Equalizer products development for high-speed data communication.
- **2009:** Coax Transceivers added for 2-way communication over coax cables. Led "CoaXPress" standardization for high-end industrial imaging.
- **2009:** CoaxPress consortium wins VISION award for most innovative development in imaging.
- **2011:** CoaxPress officially becomes a new world standard.

EqcoLogic NV

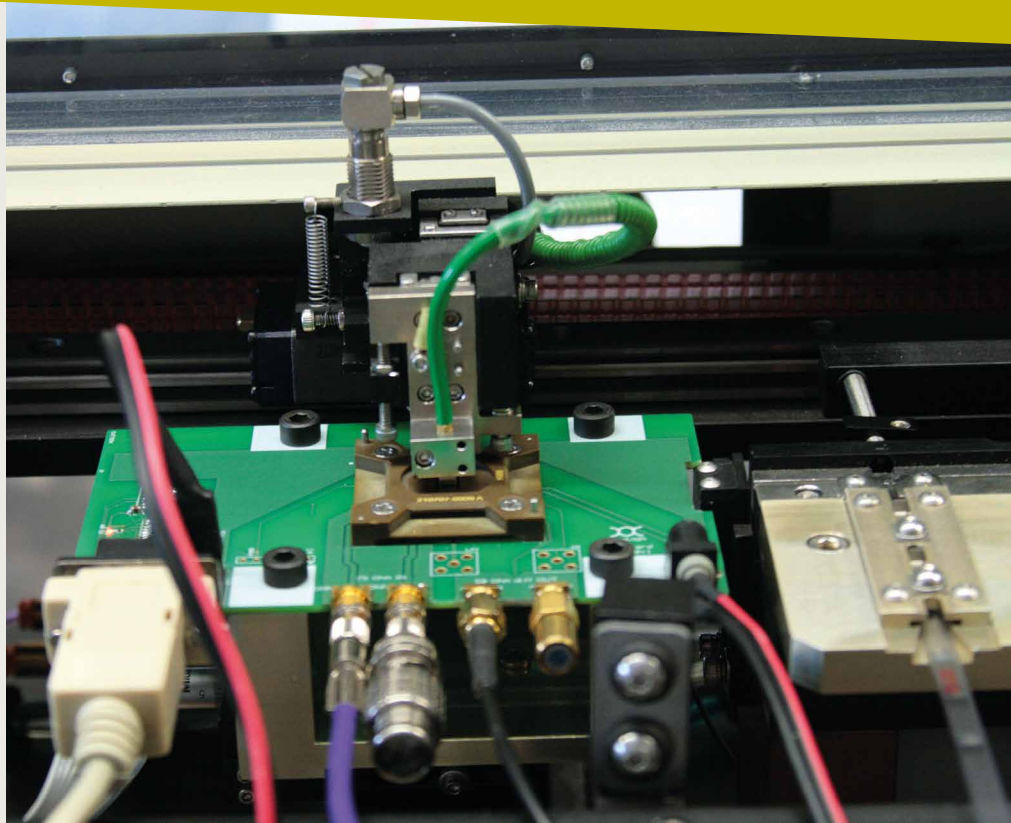
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Low power Equalizers and Transceivers for high speed communication

The spin-off company **EqcoLogic** was created in 2005 and stems from the Laboratory for Micro & Photon Electronics (LAMI), part of the Department of Electronics and Informatics (ETRO) at the Vrije Universiteit Brussel. Crucial to the commercialized technology are the **'Electrical High-Speed Interconnects by Smart Equalization' Technology ('Equalizers')**, the brainchild of Prof. Maarten Kuijk. These Equalizer and Transceiver chips can reprocess digital signals that are too weak so that they can be sent across a communication channel and deliver flawless, readable digital information.

Fast, simple, efficient

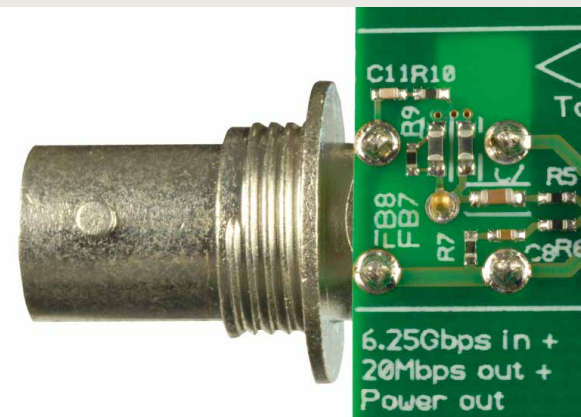
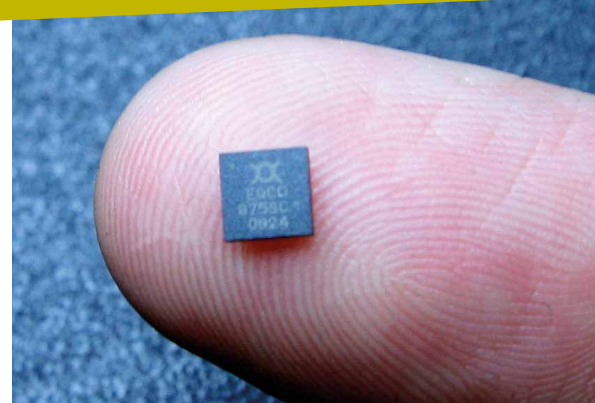
The equalizers use very little energy in the process. Hence, the allusion to ecology - **EqcoLogic stands for Equalizers for communication, low power, and general-purpose integrated circuits.** Applications for this product are in any system where there is a need for sending digital data at high speed and/or over long distances. In every case, equalizers make the design of the system simpler, cheaper and more energy efficient. In addition, EqcoLogic equalizers are designed in standard CMOS technology, facilitating their future integration into the vast majority of electronic chips. EqcoLogic is targeting video, audio, automotive and server applications with a number of business partners.

Patented technology

The Vrije Universiteit Brussel has concluded an exclusive licensing agreement with EqcoLogic for the patented Equalizer technology and became a shareholder in 2010. The current CEO is Peter Helfet, with Professors Maarten Kuijk (CTO) and Roger Vounckx as operational managers.

Single coax cable

Thanks to the support of the impulse financing of the Brussels Capital Region and the proactive follow-up of the Brussels Institute for the Promotion of Scientific Research and Innovation (INNOVIRIS), the company improved its products and **developed new circuits capable of full duplex communication over a single coax cable**. This was demonstrated in January 2007. During the following years the company worked, together with industrial partners, on a new protocol for camera-to-recorder connections. This technology would allow extremely high speed downloading of HD images, low speed uploading of instructions to the camera, while also powering it, all through a single coax cable. In 2009 the consortium, called the CoaxPress consortium, won the VISION award 2009 in Stuttgart, for the most innovative development in imaging. In March 2011 CoaxPress officially became a new world standard (www.coaxpress.com). It has now generally been adopted by camera and frame grabber makers throughout the world. All based on EqcoLogic chips.



'At EqcoLogic we combine energy efficiency and high speed in data transfer.'

Peter Helfet, CEO



Technology Transfer Interface Brussels

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