



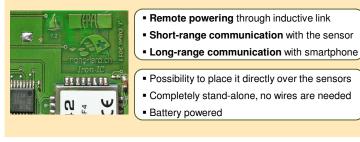
ÉCOLE POLYTECHNIQUE Fédérale de Lausanne

# IronIC Patch: A Wearable Device for the Remote Powering and Connectivity of Implantable Systems

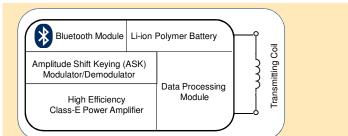
Jacopo Olivo, Sandro Carrara, and Giovanni De Micheli

Integrated Systems Laboratory - EPFL

#### Target



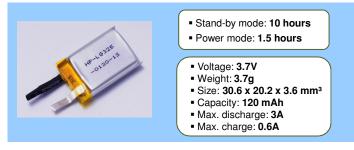
#### IronIC Patch [1]



### Performance<sup>[1]</sup>

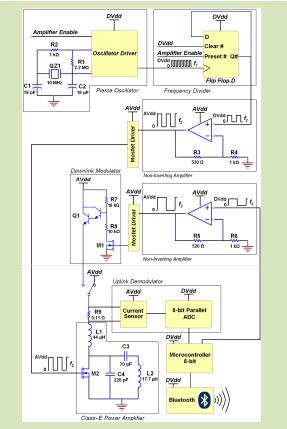


### Autonomy<sup>[1]</sup>

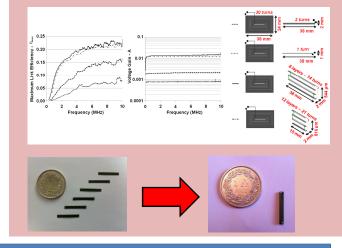


#### Annual Plenary Meeting of Nano-Tera Zürich, 26-27/04/2012

# Schematic<sup>[1]</sup>



## Multilayer Inductors [2]



#### http://lsi.epfl.ch/

- References
- [1] J.Olivo, S.Carrara, and G. De Micheli, "IronIC Patch: A Wearable Device for the Remote Powering and Connectivity of Implantable Systems," IEEE I2MTC 2012, (In press).
- [2] J.Olivo, S.Carrara, and G. De Micheli, "Multi-Layer Implantable Inductors for Remote Powering of Subcutaneous Biosensors," submitted to the IEEE Transaction on Biomedical Circuits and Systems