# The Libre-SOC Gigabit Router

A Libre-Licensed Gigabit Router ASIC Delivering on EU Digital Sovereignty

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## Why create a Libre-Licensed ASIC?

- Security, auditability, Sovereignty
- Security through obscurity is always broken (eventually)
- ► Fully Libre-Licensed including the VLSI toolchain: there's nowhere to hide vulnerabilitities
- EU Digital Sovereignty: LIP6 Labs coriolis2 is Europe's only Silicon-proven toolchain.
   OpenLANE: DARPA. Cadence VLSI etc. are US-owned.

### Who are we?

- ► Libre-SOC: Luke Leighton and Jacob Lifshay Software Engineers with Hardware experience
- ► LIP6 / CRNS: Jean-Paul Chaput, Marie-Minerve Loureat Prof. Dimitry Galayko. HITAS/YAGLE, coriolis2 VLSI
- Chips4Makers: Staf Verhaegen
   Developer of the FlexLib Cell Library
- RED Semiconductor: David Calderwood, Luke Leighton Commercial realisation of Libre-SOC designs.

# What are we making?

- A Gigabit Router ASIC which will OpenWRT (A "Linksys"). 5 Ethernet ports, 2 USB ports.
- End-users will have full control over the firmware (No locked DRM)
- End-users can check there is no hardware spying
- Customers can be confident their business communications are not at risk
- ► Expected retail price of a commercial Gigabit Router product to be around EUR 60 in large enough volume.

# The end Thank you Questions?

- Discussion: http://lists.libre-soc.org
- ▶ Libera IRC #libre-soc
- http://libre-soc.org/
- https://www.ngi.eu/ngi-projects/ngi-pointer/

