4x RX antenna array

2x TX antenna array

SPI interface

Project Soli information document

Project Soli is using radar to enable new types of touchless interactions – one where the human hand becomes a natural, intuitive interface for our devices. The Soli sensor can track sub-millimeter motion at high speed and accuracy. It fits onto a chip, can be produced at scale, and can be used across a wide range of mobile, wearable and stationary devices.

To see the technology in action, click here.

Product implementation of this technology has been presented at this year's Google Developer Conference (Google I/O 2016). Please click here to watch the Project Soli update.

Please find FAQs below. For more detailed information please contact Suresh Ram, Chris Cameron or Jens Reinstädt.

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infineon

www.infineon.com/soli

FAQs

1. When is Soli ready to be shipped (samples and production)?

> We are targeting end of 2016 for samples and May 2017 for production release of Soli B

2. What's the price?

> Pricing depends highly on the complexity of the application and therefore needs to be determined on case by case

3. How support intensive is it?

> Soli B is highly support intensive. It is possible that specific gesture sets will be developed until May 2017. However, the combination of hardware and gestures needs to be fine-tuned for each application.

4. What kind of support do you provide?

> Infineon will provide hardware, firmware and application support. Google will provide software documentation and algorithms. We will provide collateral as necessary to support customers.

5. Is there a development kit available?

> A Google development kit is available. Please sign up at https://www.google.com/atap/project-soli/ for updates

6. Can own gestures be defined?

> Yes, you can suggest them to Google for SW development

7. Do we have to work with the Google software?

> Yes, Google and Infineon work together for a bundled solution that is optimized for a specific use case.

8. When do you expect the next generation of Soli?

> We have a roadmap in place for additional versions of the product

9. How precise is the product?

> Currently there is no other product on the market with comparable precision and detection range. The use of 60GHz allows for a resolution of 20mm. With additional algorithms, the solution operates with sub-mm resolution.

10. Who to contact?

> Please contact
> Chris Cameron, Christopher.Cameron@infineon.com
> Suresh Ram, suresh.ram@infineon.com or
> Jens Reinstädt, jens.reinstaedt@infineon.com
> for information about design and implementation support