

# thingSoC

Open Source Sockets  
for  
the Internet of Things



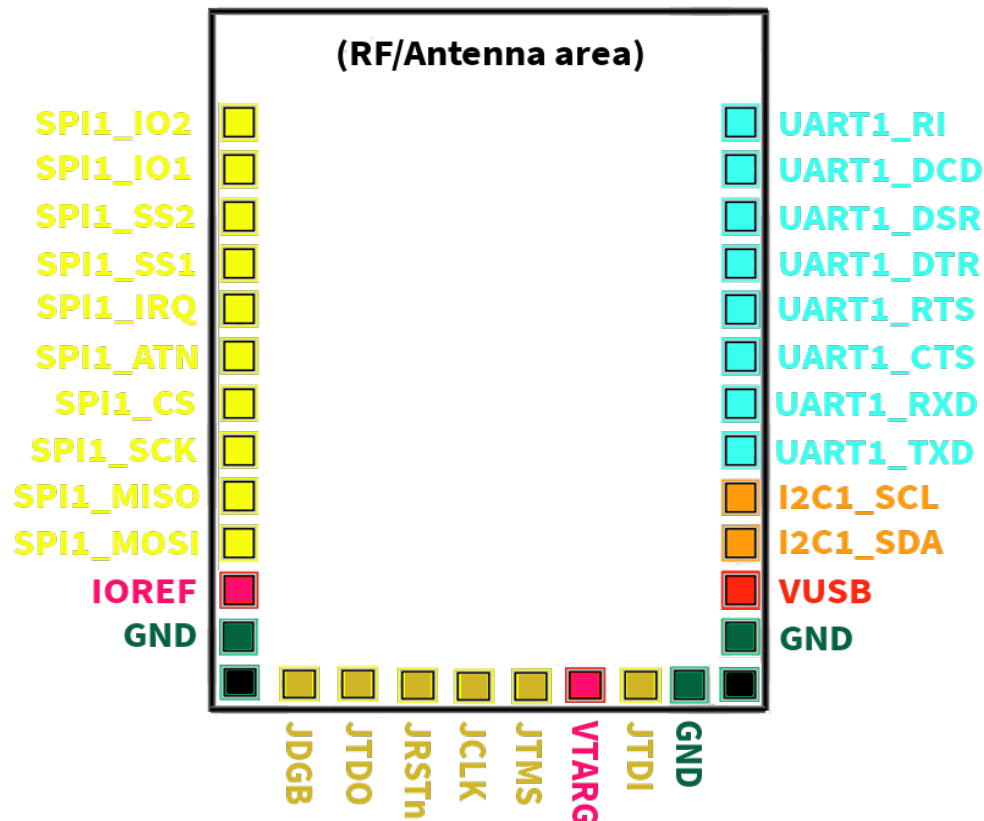
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@PatternAgents

# thingSoC initiative

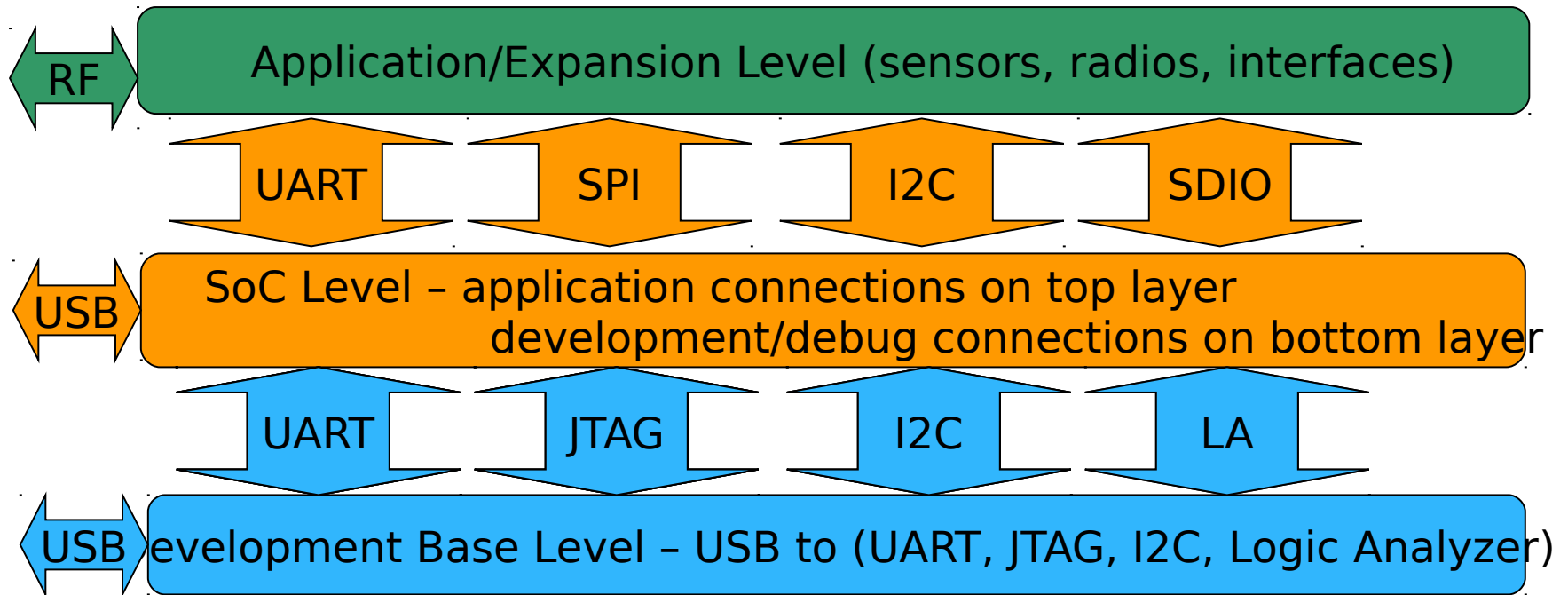
- ★ <http://www.thingsoc.com>
- ★ Open Source Sockets for the Internet of Things (OPEN)
- ★ A rapid development platform for IoT applications (FAST)
- ★ Auto-Identifies Add-Ons & Options for ease of use (EASY)
- ★ Builds in Test modes and Instrumentation (RELIABLE)

# Common/Needed Interfaces

thingSoC IoT Sockets  
embedded module  
32 Pin Module



# thingSoC Stacking Levels



\* Interfaces at known pins allow for easy test fixture setup and automation

# thingSoC App layers

- ★ Socket/IF for RF modules (Bluetooth, Wi-Fi, Cellular, Packet)
- ★ Socket/IF for Specialized interfaces (Motors, Sensors, etc.)
- ★ Socket/IF for other platforms (iPad, RaspPi, Beagle, Arduino)
- ★ Open Source Hardware standard for socket interfaces

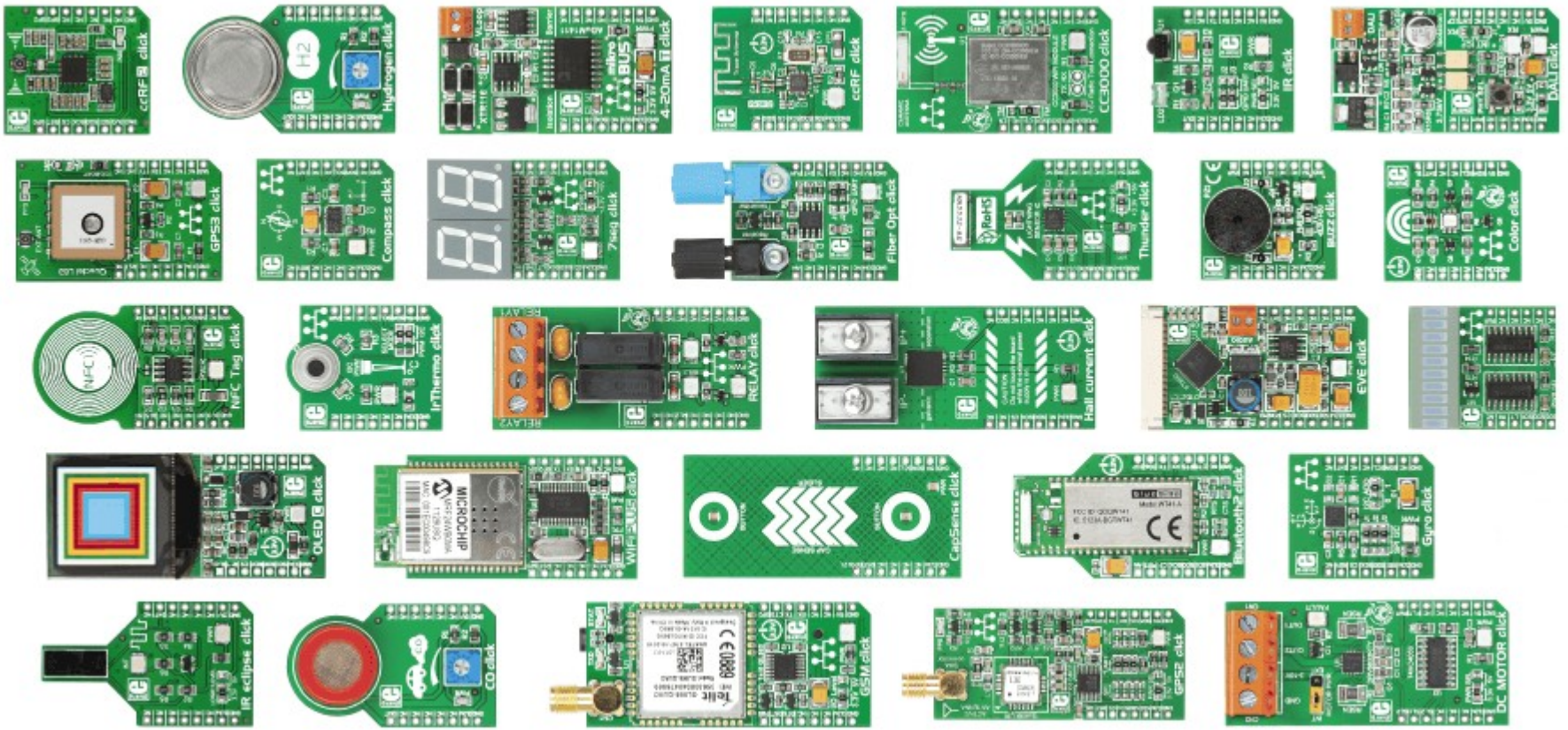
# ThingSoC is Unique...

- ★ Adds the concept of Built-In Testing Automation (i.e. hooks for “IEC safe operation” and “continuous testing”)
- ★ Logic Analyzer/O-Scope Bus - an “instrumented platform”
- ★ Reusable Middleware – just change the application layers
- ★ Working on Radio & RF Stack interfaces (Contiki/Rime, RadioHead, and Proprietary RF Stacks)

# thingSoC Reference Designs

- ★ Common Platform for different Micro-Controllers
- ★ Common Platform for different Peripherals
- ★ Interchangeability allows for fast prototyping
- ★ Interchangeability reduces costs for upgrades

# Compatible with Mikroe“Click”



Over 100 “Click” Interfaces are already available and ready for purchase



# Please Help

- ★ thingSoC is community supported -  
<https://github.com/thingsoc>
- ★ Suggestions/Comments :
  - tell us what you'd like...  
(community feedback prioritizes what we do next)
  - ask questions about applications and using it...  
(someone may be working on what you need already)
- ★ Propose a hardware/software component of your own...  
(other interested members might be willing to help)

Thank You !

Questions?