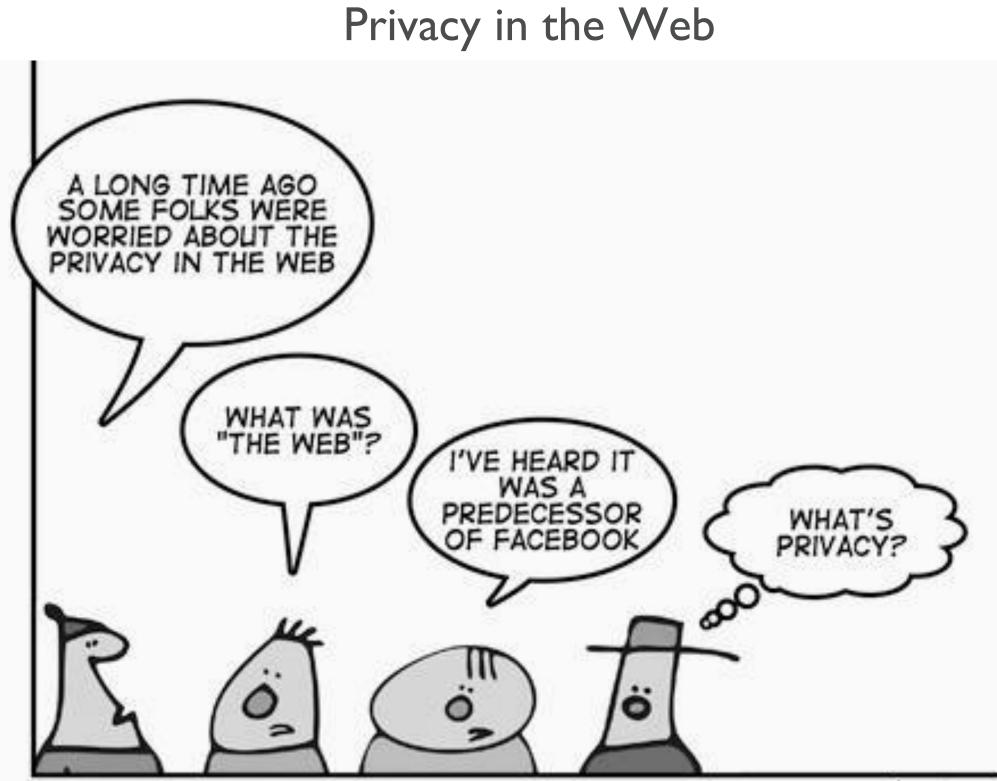
ARTIKTM

The Ultimate Platform Solution for IoT

2015. 9. 17 MyungKoo Kang (VP) Samsung Electronics







THE FUTURE OF THE WEB

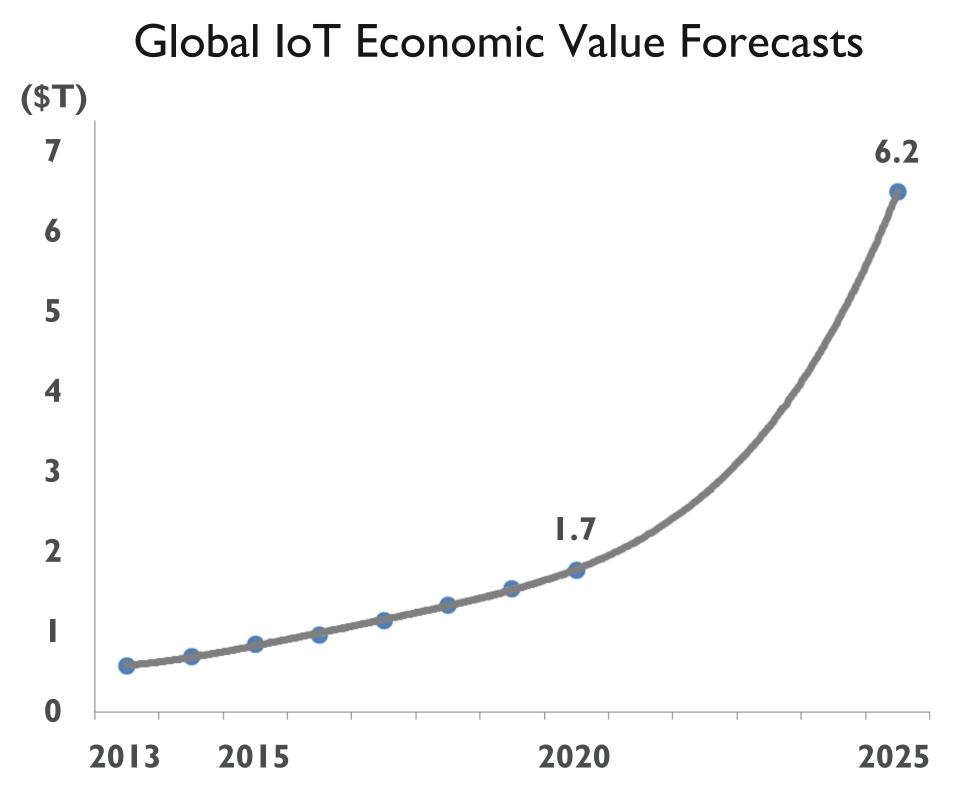
geek and poke







IoT Market Forecast



Source : IDC, Gartner, Mckinsey&Company

Emerging BIG market size and growth of IoT

- IoT market size to reach \$ 2 Trillion by 2020 and \$ 6 Trillion by 2025
- Connected devices(things) to hit 32 Billon by 2020
- IoT data growth to over 4.4 ZB



Challenges for IoT

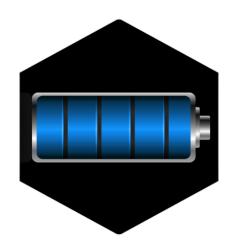


Scaling Fragmentation

One size does not fit all



Data Massive quantity. Analytics Cloud solutions



Power Battery life Battery size



Development Limited tools, eco-system support



Compatibility

Billions of devices. Diverse networks Emerging standards



Time to Market Limited tools, eco-system support



Security/Privacy

70% Internet traffic unencrypted

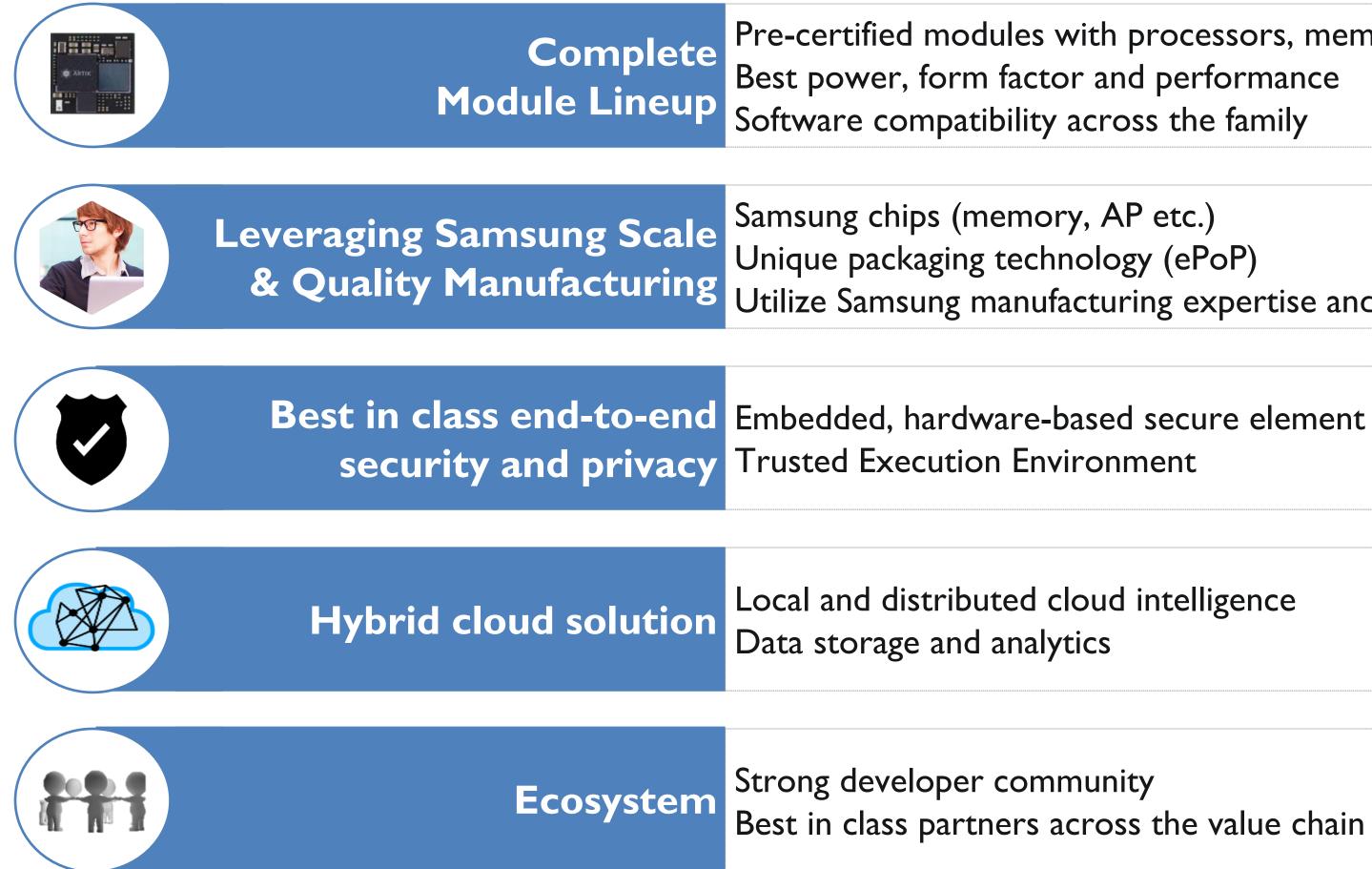


Vendor Reliability

Fast production ramp Mass production



ARTIK – Key Differentiations



Pre-certified modules with processors, memory, connectivity and sensors Best power, form factor and performance Software compatibility across the family

Samsung chips (memory, AP etc.) Unique packaging technology (ePoP) Utilize Samsung manufacturing expertise and brand

Local and distributed cloud intelligence Data storage and analytics

Strong developer community Best in class partners across the value chain



ARTIK Product Family





I2mm x I2mm 250MHz Dual Core HW Secure Element 9-axis Accelerometer



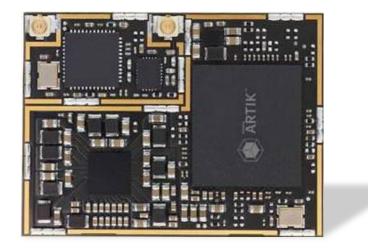




25mm x 29mm IGHz Dual Core HW Secure Element 512MB LPDDR3, 4GB NAND





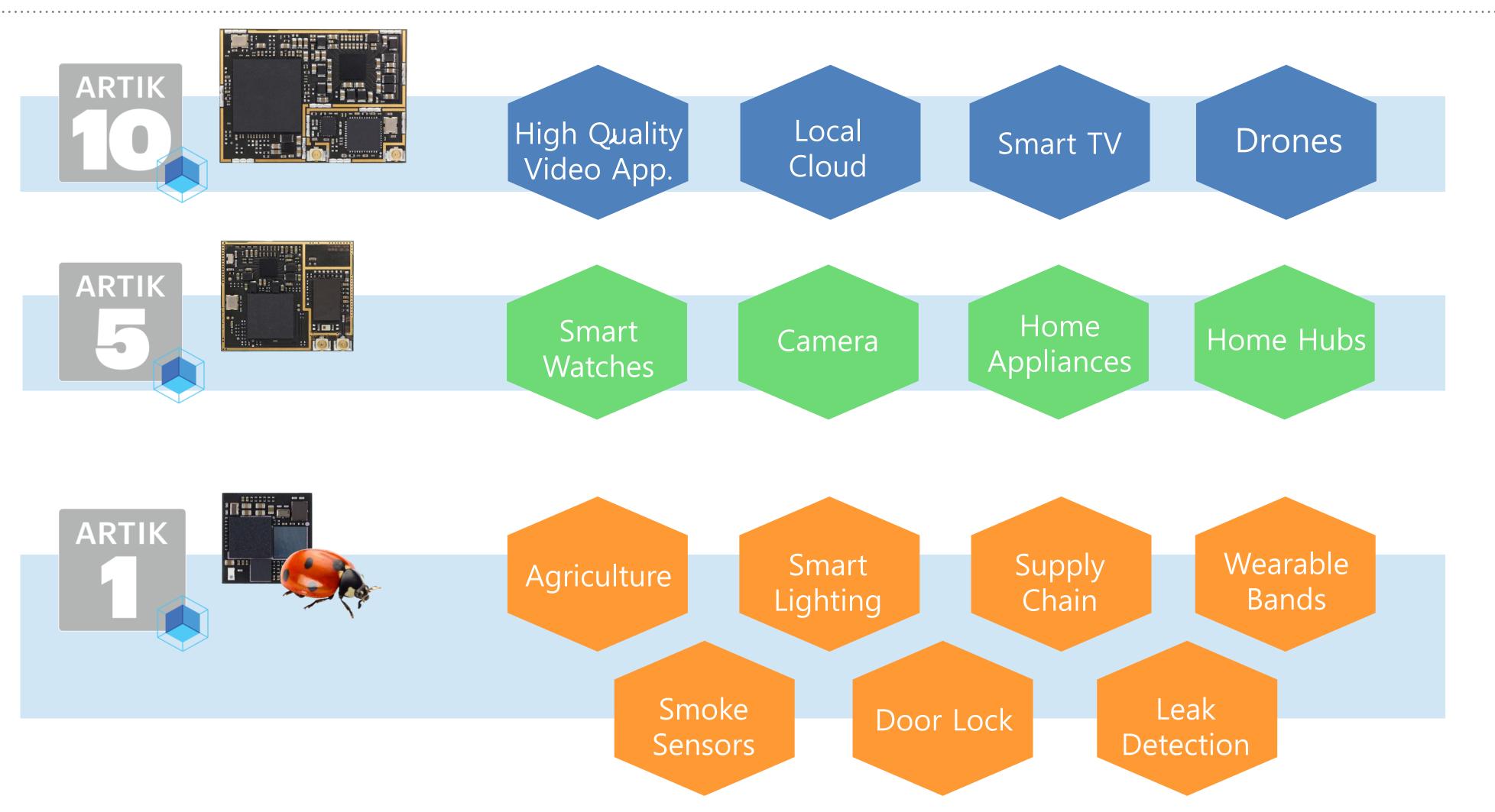


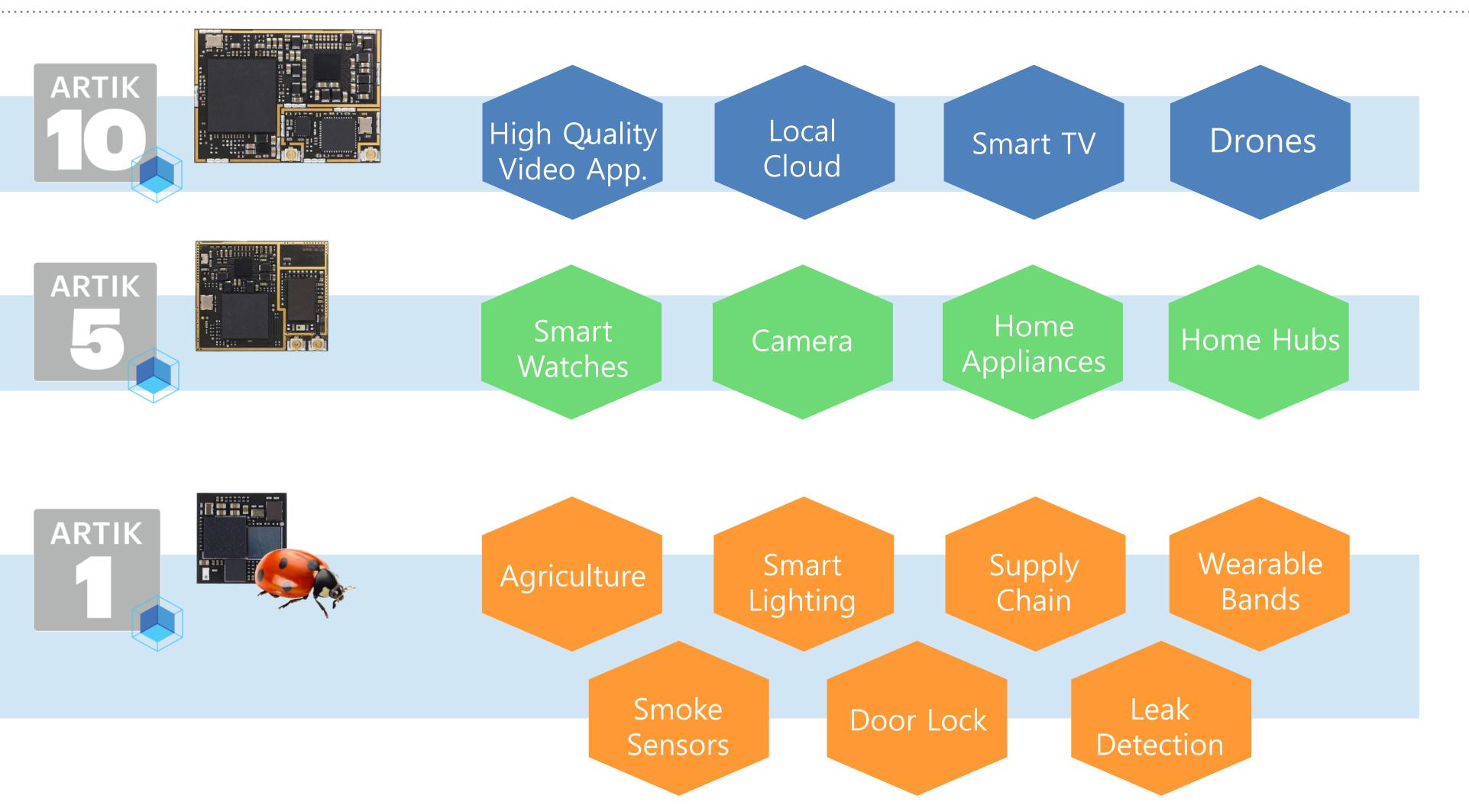
29mm x 39mm I.3GHz Octa Core HW Secure Element 2GB LPDDR3, I6GB NAND





Potential Applications of ARTIK

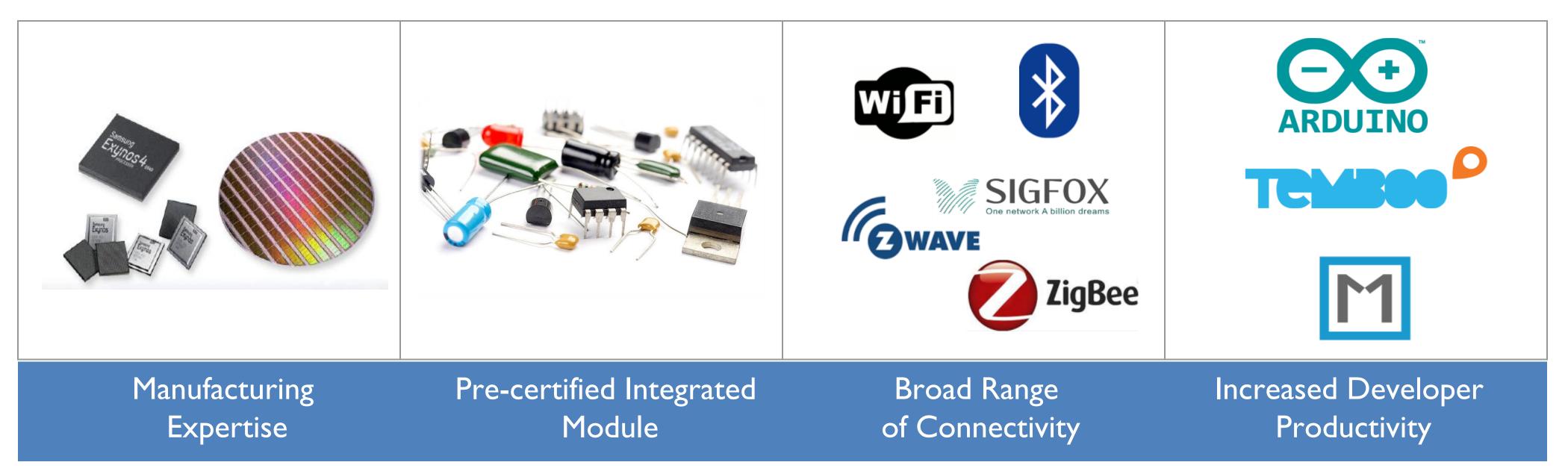






ARTIK Differentiated - Production Ready Hardware

One Stop Shopping Solutions





ARTIK Differentiated – Open & Advanced Software

Essential features provided on top of Open Source SW Stack



Advanced Security

Local & Open Cloud

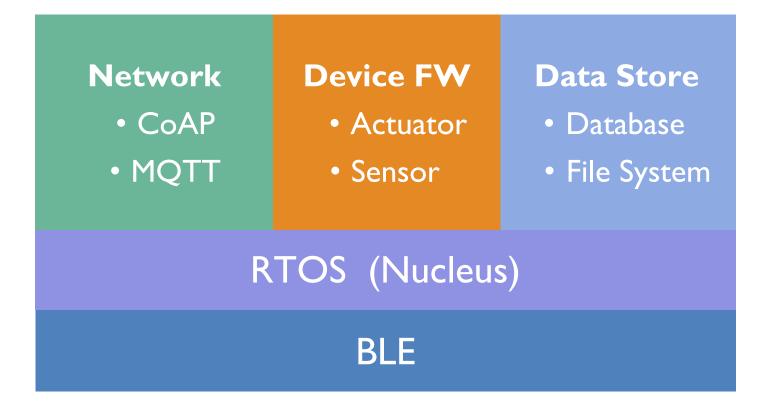
Open Source

Software Development Kits



Software Stack





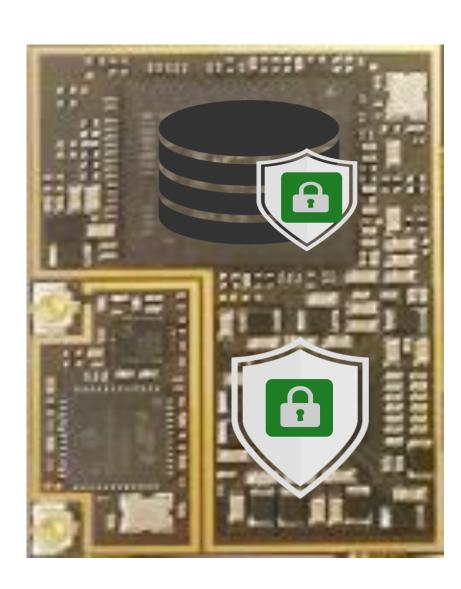


Network • HTTP • CoAP	IoT Hub Framework • openHAB OSGI RUNTIME	Data Store • Maria DB
• MQTT	JAVA VM	 Influx DB
Linux OS (Yocto, Fedora)		
Ethernet, Wi-Fi, BLE, ZigBee, ZWave		



ARTIK Differentiated – End-to-End Security Solution

Proven security technologies Combining hardware and software security



Application Security

Platform Security

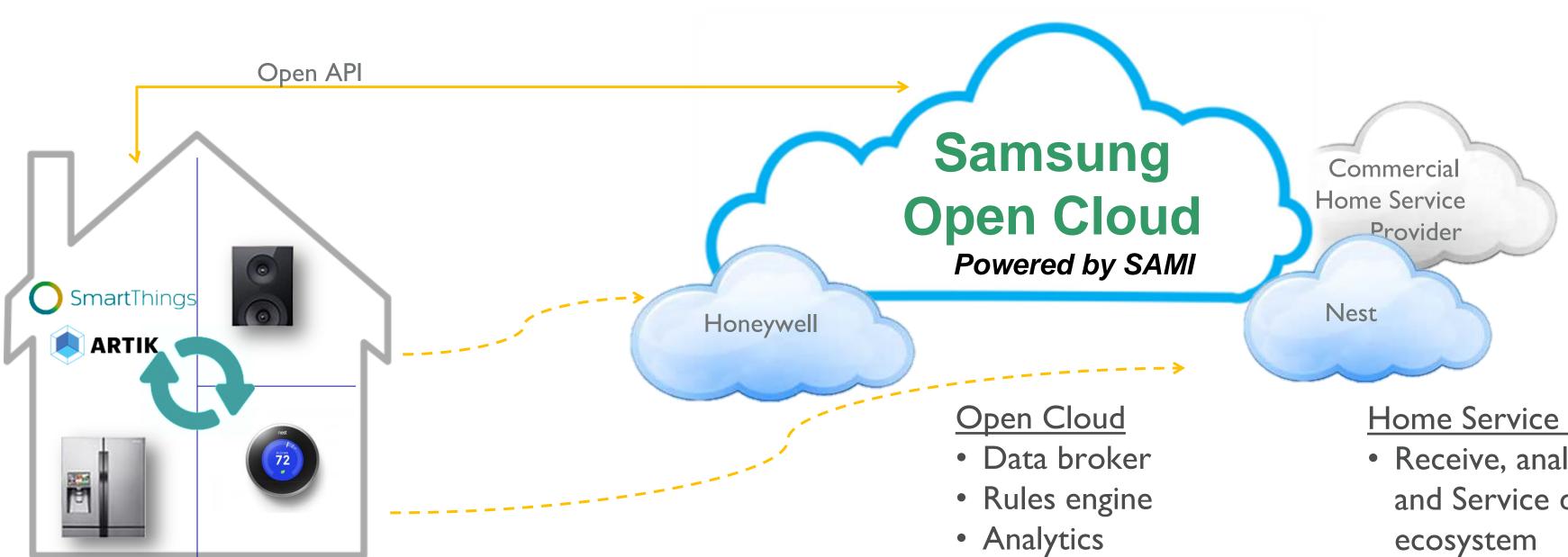
- Secure Boot
- Hardware Security
- **ARM**'TRUSTZONE'





ARTIK Differentiated – Open Cloud

Connect devices to be analyzed and visualized anytime, anywhere



Home Owner

- User determines "opt-in" for each device
- Devices talk to each other, work together via Open Cloud

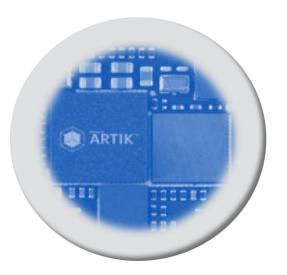
- Open API links to any 3rd party open cloud

Home Service Provider

• Receive, analyze, process data and Service devices from entire



ARTIK Differentiated – The IoT Enabler



with world's smallest, low power module

Turnkey SW solution with local intelligence





Mass Production Ready HW Module Platform

Best in class end to end security solution

through an embedded, secure element and trusted execution environment

