



IoT do Gateway à Cloud – Partie 1

Victor Fragoso Ferreira – Março 2017

Accelerating Your Success™

Quem Somos Nós e O Que Fazemos

Quem Somos Nós

Somos um dos maiores distribuidores globais de componentes eletrônicos, produtos computadorizados e tecnologias embarcadas. Presente em mais de 115 países.

O Que Fazemos

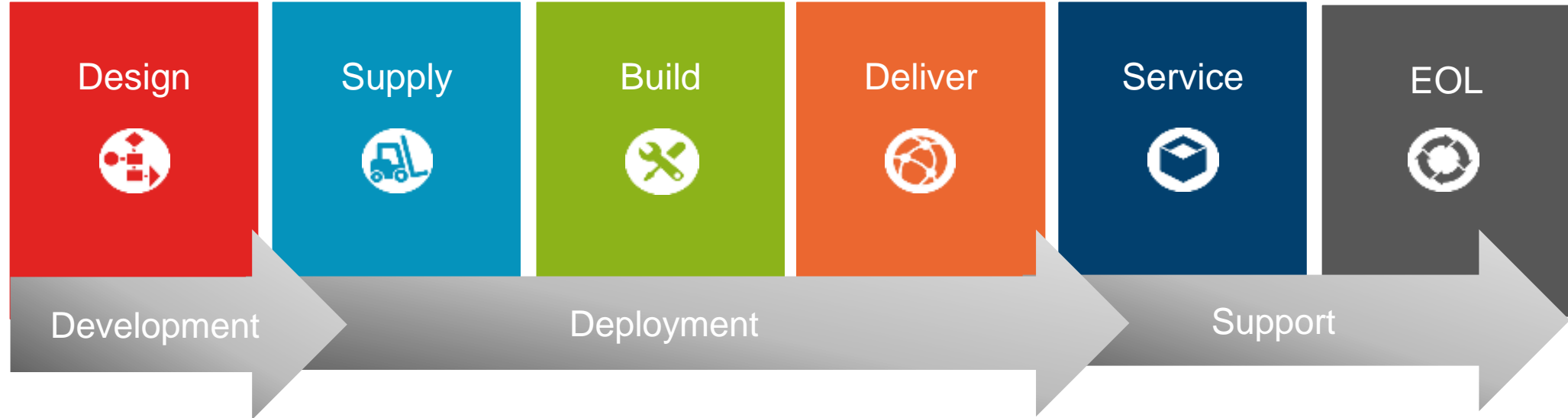
Nós conectamos fabricantes líderes no Mercado de Tecnologia com mais de 100,000 clientes, provendo serviços e soluções, com valor agregado e custo efetivo.

Escopo Financeiro

No final do ano fiscal, finalizando em 30 de junho de 2016, geramos uma receita de \$26.2 bilhões.



Serviços ao longo da vida do produto



Ecosistema Avnet



Internet of Things



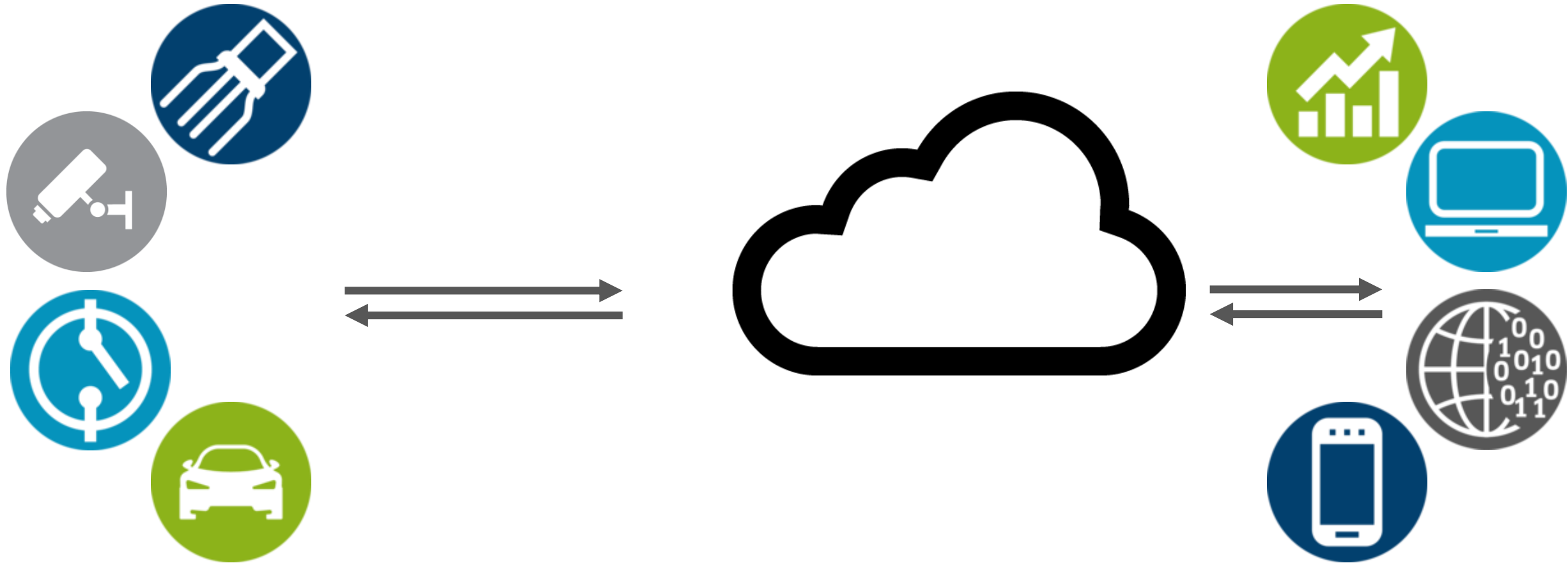
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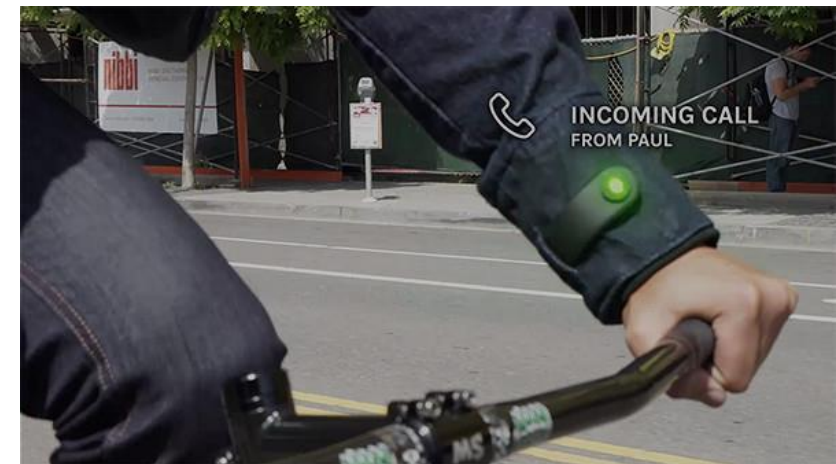
IoT



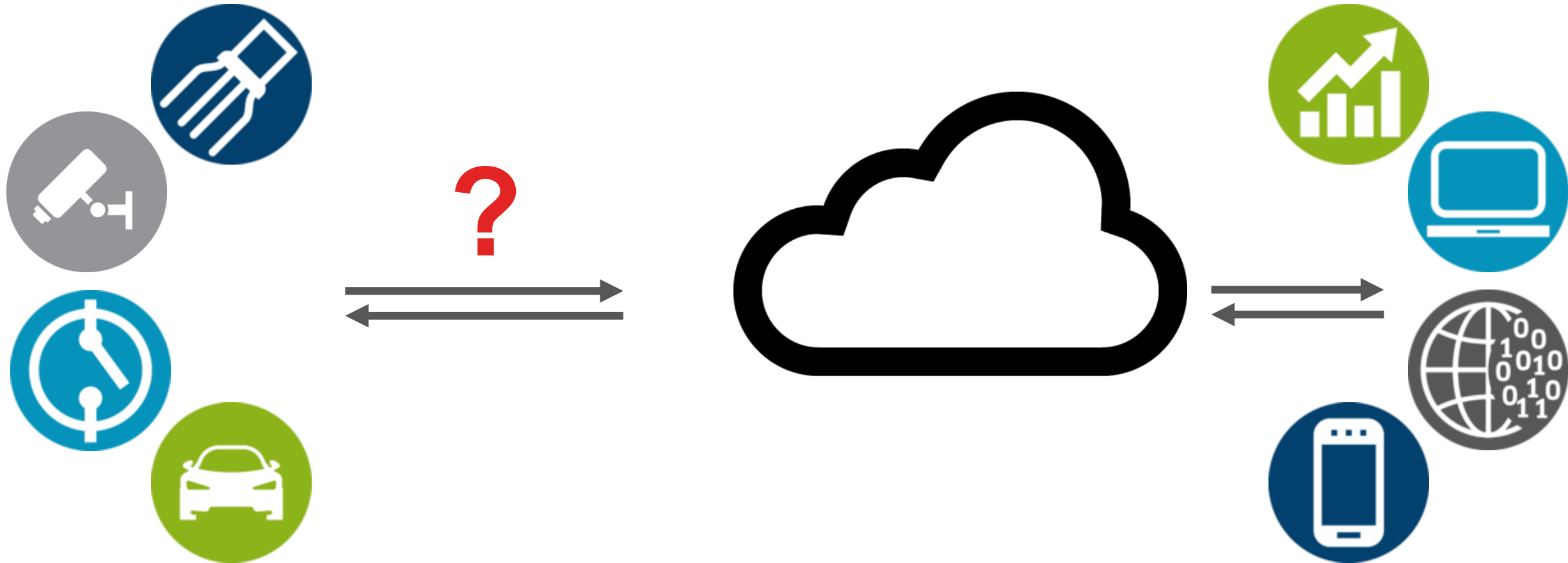
Mercados



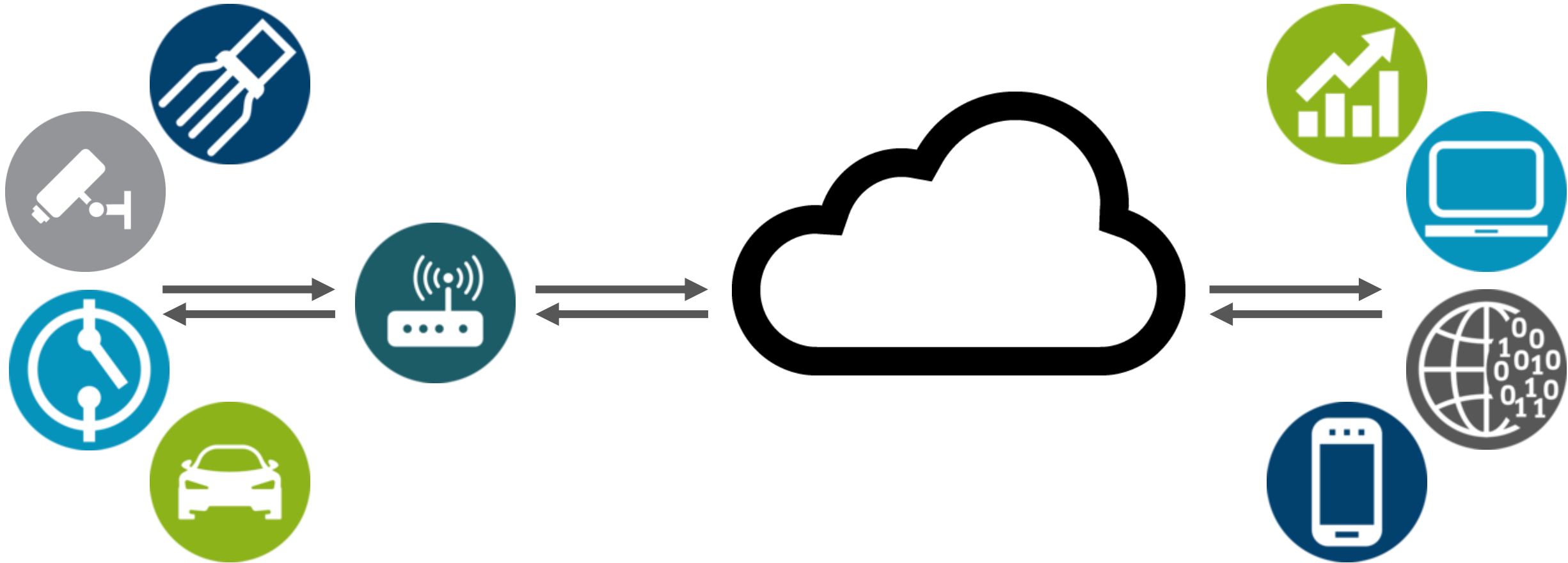
Mercados



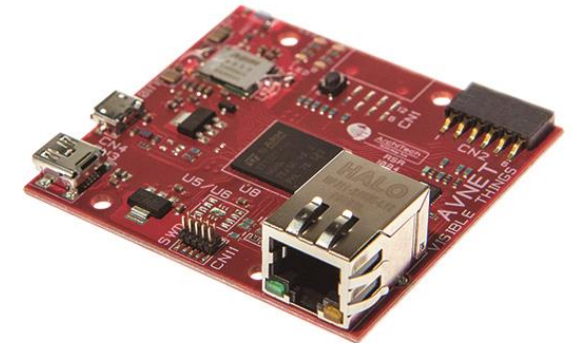
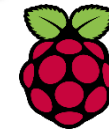
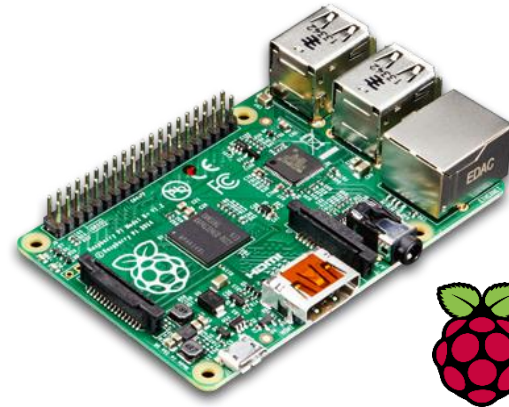
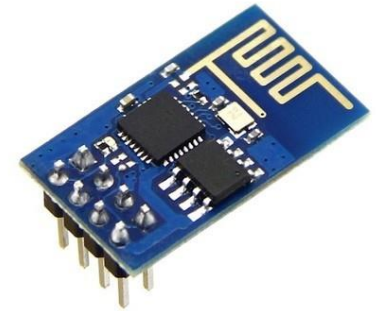
IoT



IoT + Gateway



Gateways



BCM4343W IoT Starter Kit e Módulo



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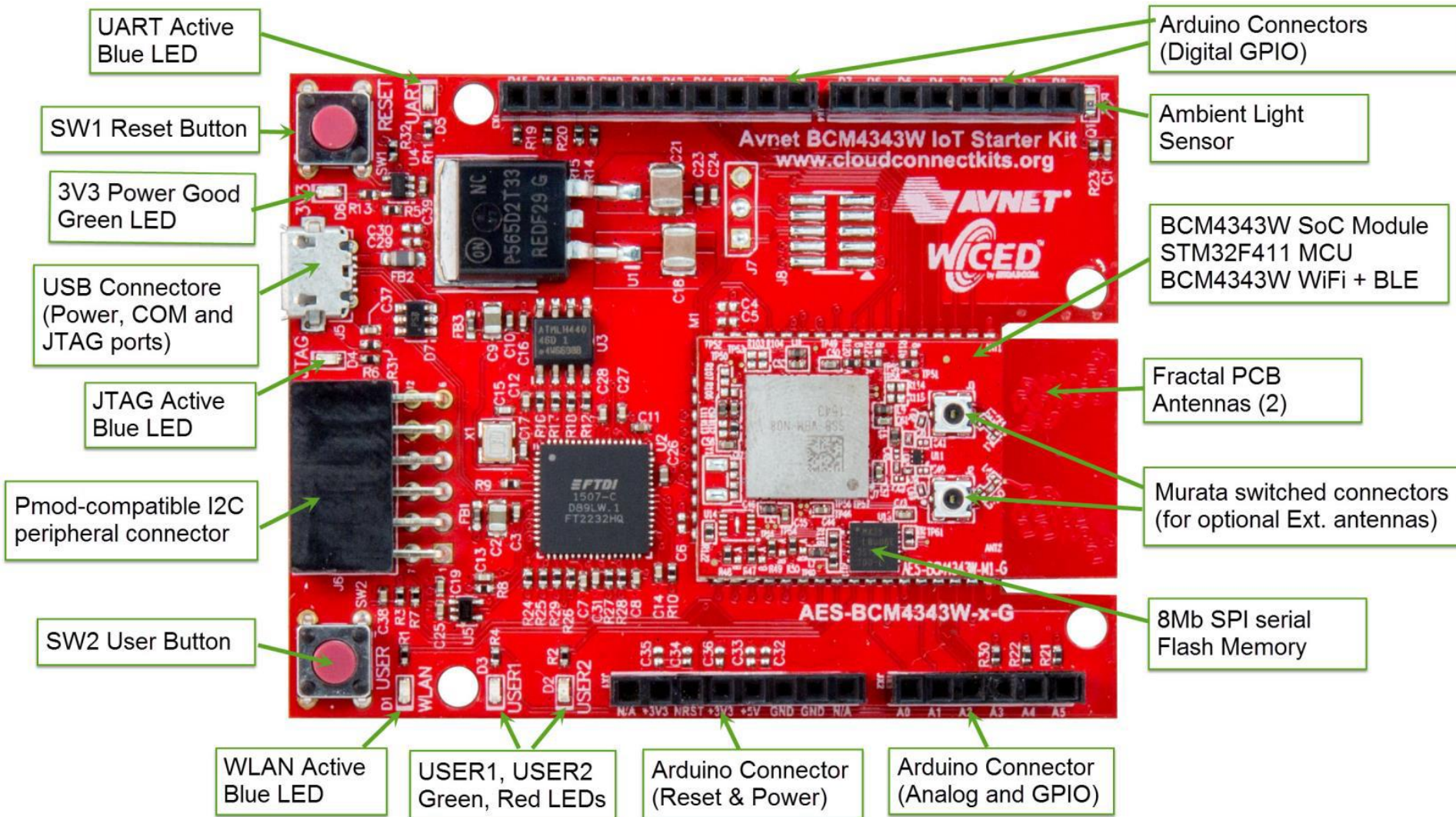


Avnet BCM4343W IoT Starter Kit

- Plataforma de Desenvolvimento para IoT
- STM32F411 ARM® Cortex™ M4 Microcontroller
- 2.4GHz 802.11 b/g/n WiFi
- Bluetooth® 4.1 (Low Energy)
- 512KB Flash, 128KB SRAM
- Interface PMOD
- Compatível com Shields de Arduido
- \$49,95



Avnet BCM4343W IoT Starter Kit



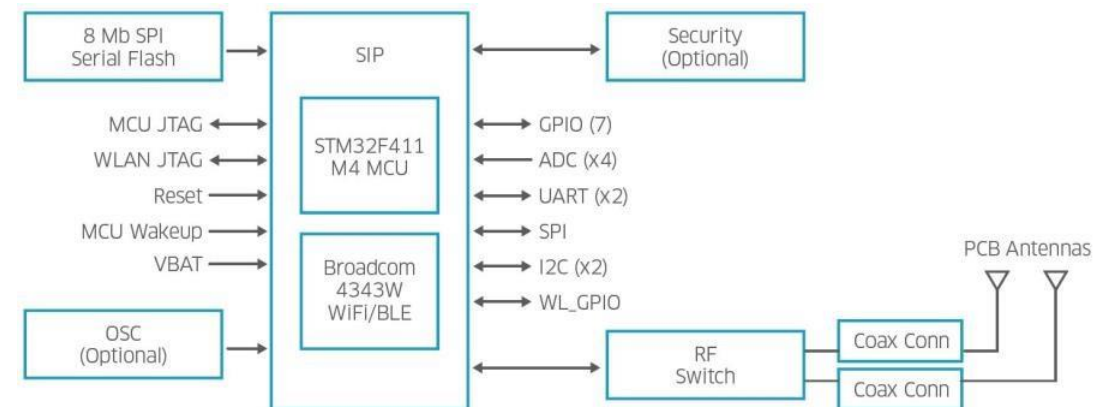
Porque escolher o Avnet BCM4343W IoT Starter Kit?

- Disponível em <http://cloudconnectkits.org/>
- “Production ready”
- FCC, IC, CE, RoHS Certifications
- Prototipagem fácil e documentação disponível
- Desenvolvimento através do ZentriOS SDK ou WICED SDK
- Fácil de conectar com qualquer plataforma de nuvem
- Suporte

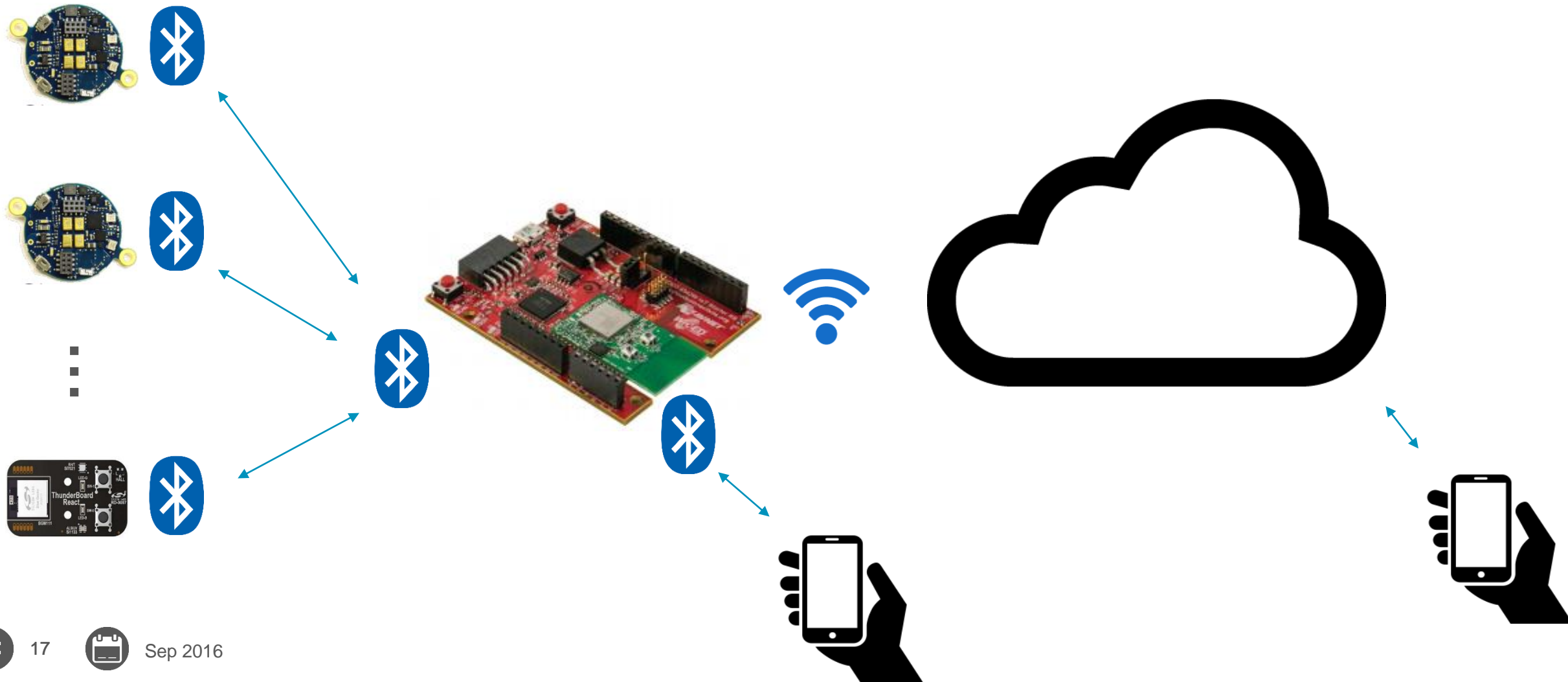


Módulo BCM4343W

- WiFi + BLE + MCU + SPI Flash em um único módulo
- 2.4GHz 802.11b/g/n e Bluetooth/BLE 4.1
- Pode ser utilizado como Gateway e Nó
- \$14,95



Várias Oportunidades para Aplicações



Informações Adicionais



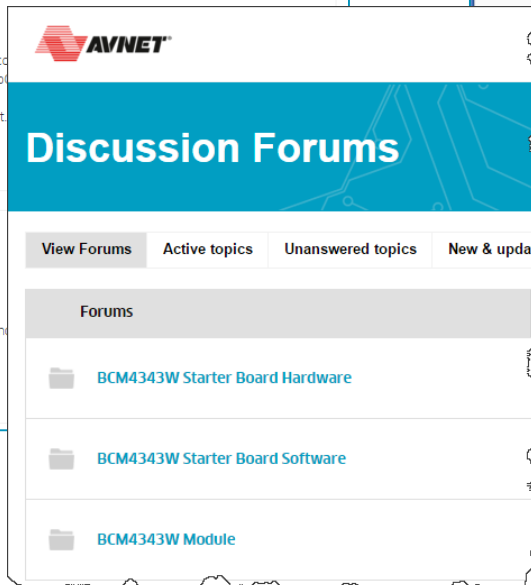
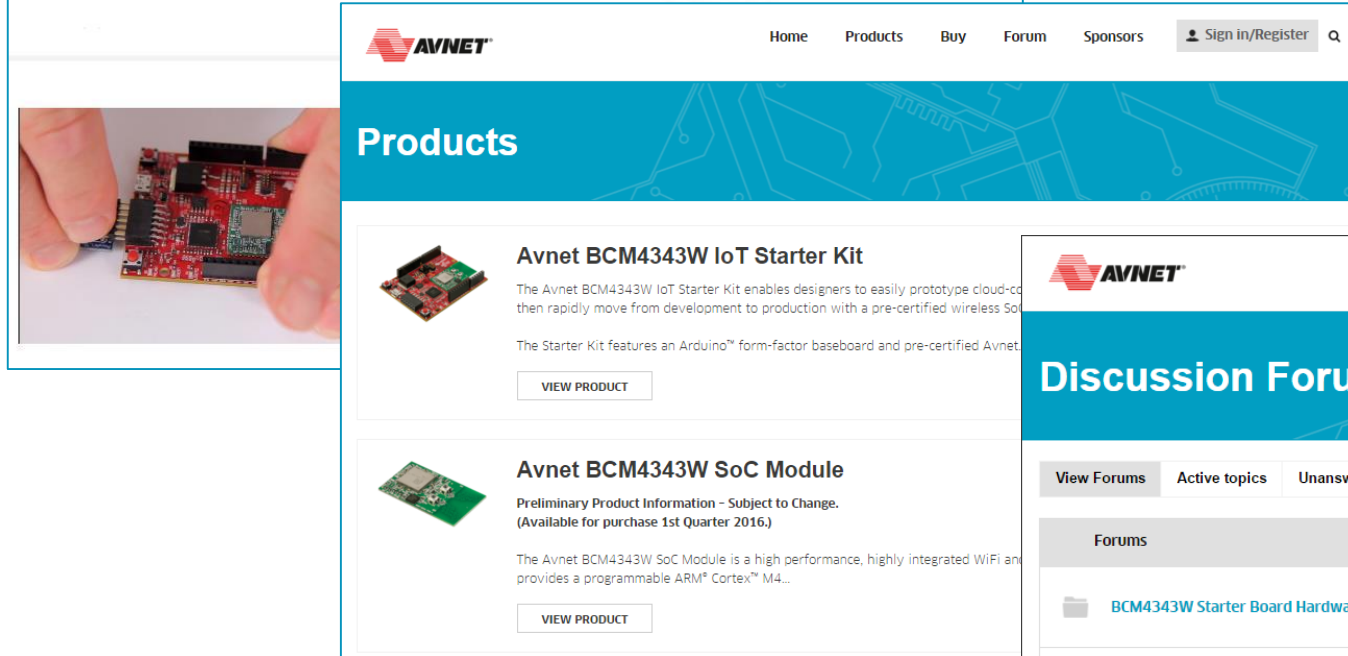
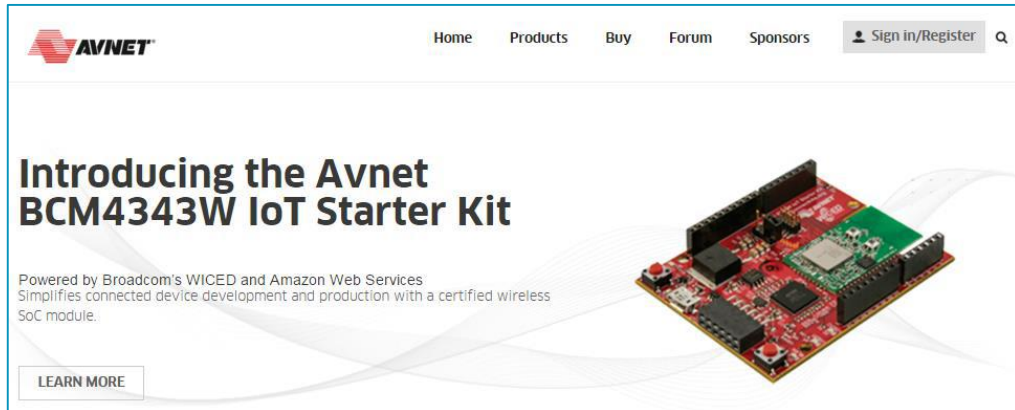
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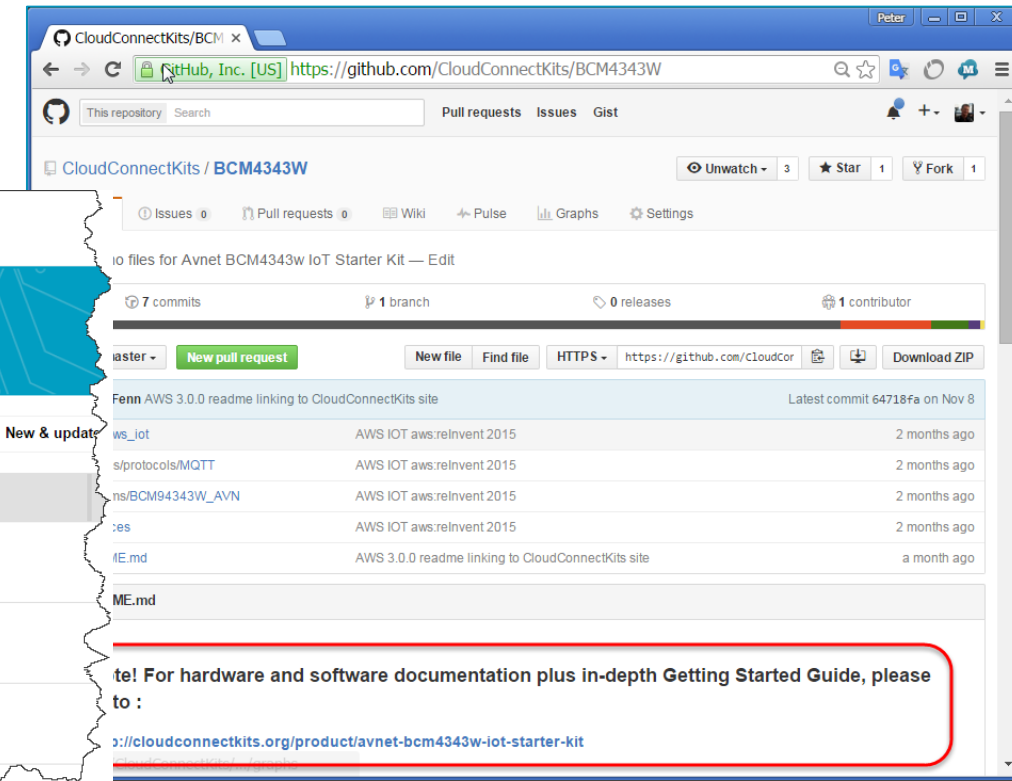
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CloudConnectedKits.org



- www.cloudconnectkits.org
 - Informações sobre kits
 - Documentação Técnica
 - Projetos de Referência
 - Suporte por Forum
- [GitHub.com/CloudConnectKits](https://github.com/CloudConnectKits)



WORKSHOP!



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Workshop LAB 2

- <https://github.com/CloudConnectKits/WORKSHOP>

CloudConnectKits / WORKSHOP

Watch 2 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse Graphs

BCM4343W IoT Workshop Files

34 commits 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

PeterFenn committed on GitHub Add files via upload Latest commit 00bbecc on 3 Nov 2016

Lab1	Add files via upload	4 months ago
Lab2	Delete Lab2Demo.elf	4 months ago
Lab3	Add files via upload	5 months ago
Lab4	Delete bluemix.c	4 months ago
Avnet IoT Workshop - Installation Requirements (v1.0).pdf	Add files via upload	5 months ago
README.md	Update README.md	4 months ago
WORKSHOP - IoT Product Development using WiFi, BLE and IBM Cloud ...	Add files via upload	4 months ago
teraterm-4.92.exe	Add files via upload	5 months ago

BCM4343W + NXP FRDM-STBC-AGM01

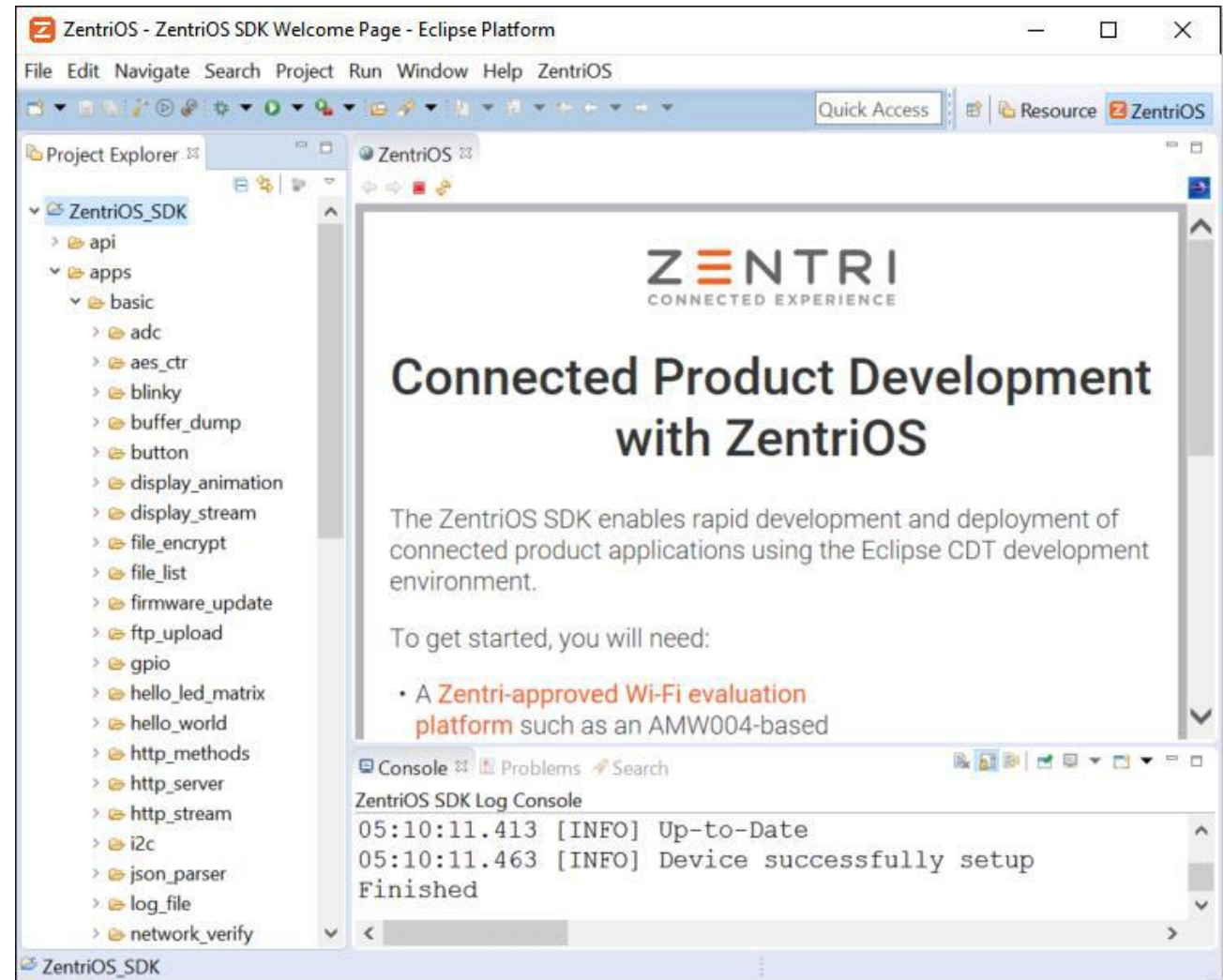


- **FXOS8700CQ**
 - 3D Accelerometer ($\pm 2g/\pm 4g/\pm 8g$) and 3D Magnetometer
- **FXAS21002C**
 - 3D Gyroscope



ZentriOS SDK

- RTOS
- Outros RTOS?
- Zentri DMS



IBM Bluemix

- Conectando e enviando dados para a nuvem
- Fazendo processamento dos dados
- Notificações e alertas

