

AAEON IQRF Solution: When AI meets IQRF

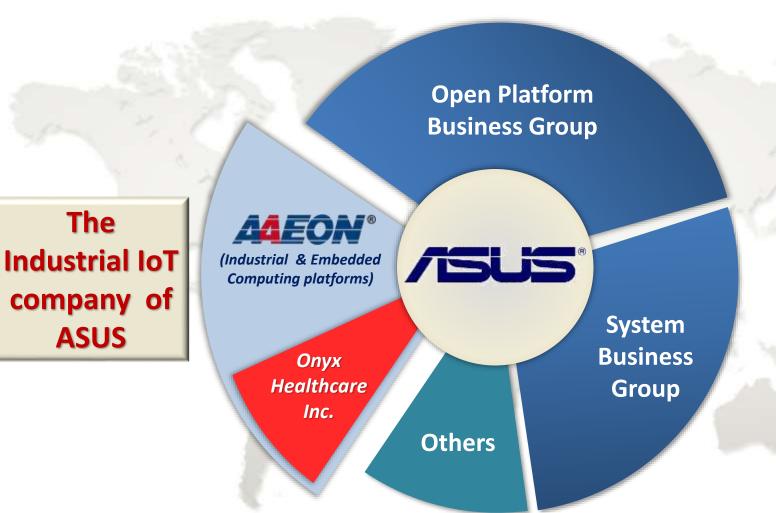
Spreading Intelligence in the Connected World

AAEON @ IQRF 2018 Summit, Prague

Presenters : Fabrizio Del Maffeo, VP & Managing Director AAEON Europe, UP Founder Daniele Cleri, Senior Software Architect







The

ASUS



AAEON Worldwide Offices





AAEON's Mission

Spreading Intelligence In The Connected World



ARTIFICIAL INTELLIGENCE ON THE EDGE





Intelligent Retail

- POS & Mobile POS
- Mobile Payment
- Smart Vending
- Digital Signage &
- KIOSK



Intelligent Manufacturing

- Industrial Robot
- Machine Vision
- Digital Factory
- Logistics & Warehousing



Intelligent Transportation

- In Station Facility
- In-vehicle Signage & Security
- Ticketing Machine
- Gas Station & Electric Charging Station



Intelligent Security

- · NGFW / UTM
- SDN/NFV/vCPE
- · VPN/VM
- Network Appliance
- Video Surveillance



Intelligent IOT

- Commercial Robot
- Machine Learning
- Drones
- Computing Vision
- Internet of Things

IoT Platform + Solution



IIoT ((Solution line



Smart city IP68 Fdge Gateway





Indoor 4G Edge Gateway





Starter Kit









- Status: Available in IQRF market place and UP Shop
- Pricing: USD 379
- Value Proposition:
 - Easy startup with IQRF technology
 - Complete solution HW + SW
 - Worldwide delivery in 3 days
 - Supported by UP Community
 - Same Hardware of IOT Indoor Gateway
- Part Number : RE-UP-PACK-IQRF-001





4G Maleway

- Status: sample ready
- Pricing: USD 369
- Value Proposition:
 - High Performance Off-the-shelf IQRF Edge Gateway
 - Intel QuadCore Atom x5-8350, 2GB RAM, 32 GB eMMC onboard
 - Supports of IQRF/4G
 - Complete solution HW + SW
 - Worldwide delivery in 3 days
 - · Same Hardware of IQRF Starter Kit
 - RED Certified
- Part Number: AIOT-IGWS01-A20-N001 (AIOT-IGWS01-A20-CA40232+Quectel.EC25-E+IQP







Smart City IP68 ((Correction of the Correction o

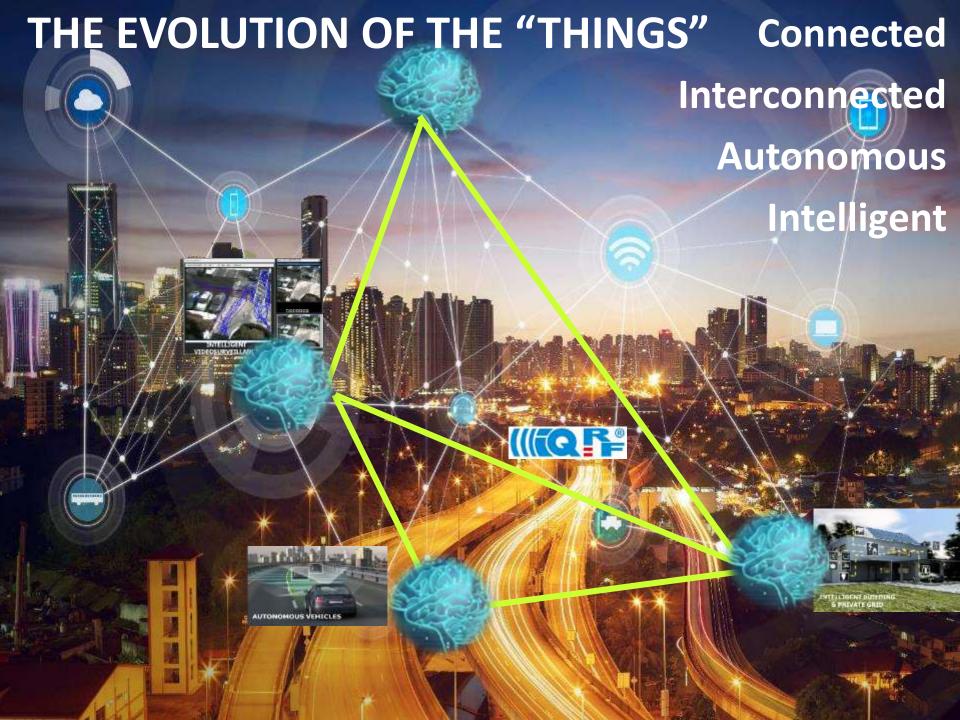


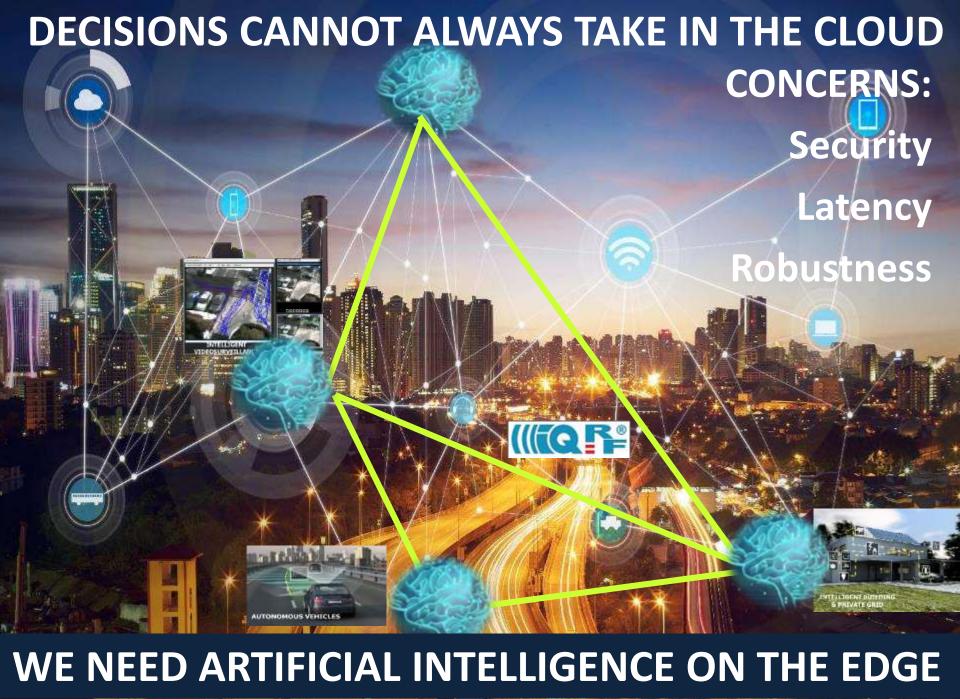
- Status:
 - SGS IP68 passed, Finalizing QA test
 - MP exptected by June, 8 weeks)
- Pricing: 789 USD
- Value Proposition :
 - Off-the-shelf IP68 High Perfomance IQRF Edge Gateway
 - Intel QuadCore Atom E3940, 2GB RAM, 32 GB eMMC
 - Supports of IQRF/4G/Wifi/Bluetooth
 - Complete solution HW + SW
 - Option for Power over Ethernet
 - Perfect fit for Smart city applications
 - Powered by UP Squared, the board adopted by Intel for IOT pre

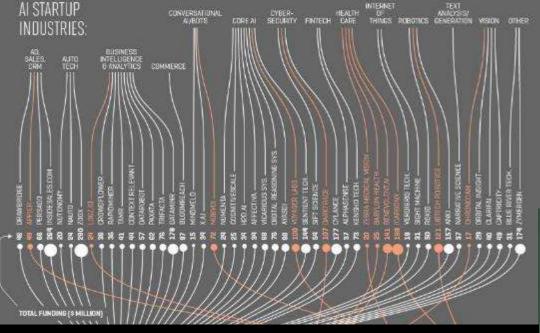
(https://software.intel.com/en-us/iot/hardware/up-squared-grove-dev-kit)

RED certified

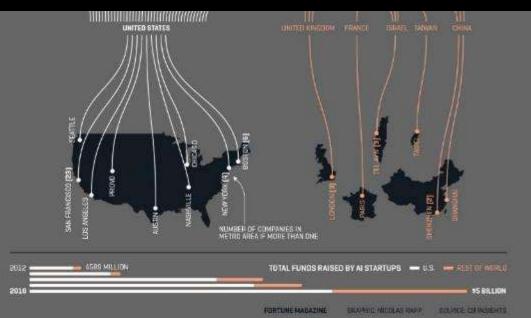


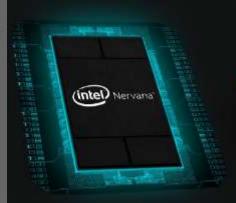






UNIQUE MOMENT FOR A.I.













Al Core







THE FIRST NEURAL NETWORK ACCELERATOR ON Mini-PCIExpress



Al Core

Hardware Neural Network

Optimized for Machine Learning and Real Time Pattern Recognition

Support of Tensor Flow & Caffe software

Compatible with all x86 computers with mPCI-Express slot

Fully compatible with Intel Neural Compute Stick (NCS)software suite







Al Core

mPCle expansion board

Intel MOVIDIUS™ Myriad 2
Video Processing Unit

Deep Learning Edge Accelerator

Ultra Low Power



Al Core

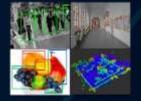


Create your model with Caffe or TensorFlow



Train Your Model in the Cloud







Deploy it in the Field on Al Core



+ Al Edge Solution line







Development and deployment on the same hardware



IoT Application with (((CQ)))



Sensors and Actuators driven by predefined logic





Adding Intelligence on the Edge

Adding a Vision camera and Al Core to an Edge Gateway -> Al VISION

AI VISION

applications can analyze and provide Al enhanced real time information into our Edge Gateways

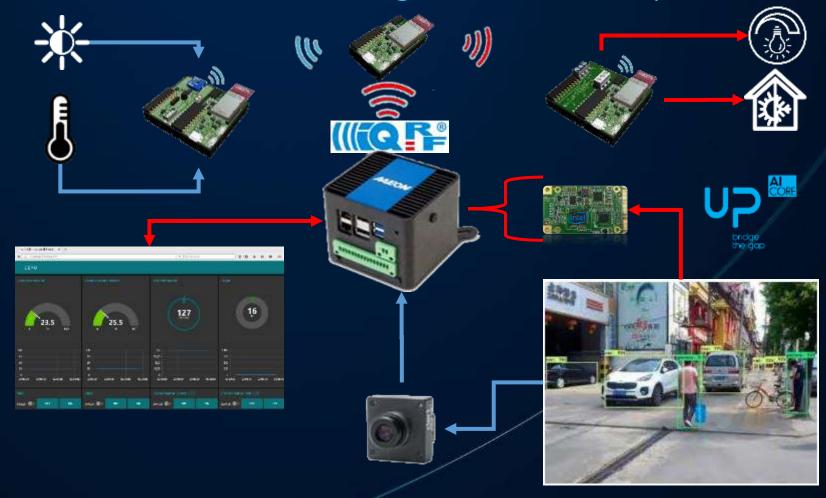






+ Al: Application Overview

Sensors and Actuators logic is enhanced by Al Vision





A.I. Ecosystem













Software partner in each country to enable AI on the Edge





See you on

www.up-board.org