How Zebra and Qualcomm Technologies collaboration enables operational workflows and benefits of enterprise grade devices

Douglas Vaz Benitez, Senior Director of Business Development, Qualcomm Europe, Inc.

Jean-Jacques Adragna, Staff Manager, Product Marketing, Qualcomm France S.A.R.L @qualcomm_eu Digital transformation of industries drives demand for our technologies

Advanced connectivity

Low-power, high-performance computing

On-device artificial intelligence



Qualcomm Technologies is the natural edge partner for industries and the cloud



We are leading the realization of the intelligent computing at the edge

Convergence of:

Wireless connectivity Efficient computing Distributed Al Unleashing massive amount of data to fuel our digital future



Healthcare Connected devices and gateways Manufacturing Industrial gateways, robotics



Retail POS, digital signage

Driving digital transformation across industries



Warehouse management

- Real time asset monitoring and more accurate location within warehouse
- Monitors inventory levels
 and individual stock levels
- Enhance safety, reduce potential collision risk
- Edge AI and analytics to improve productivity and efficiency
- Optimization of end-end delivery



Shipping and delivery

- Real-time precise location and tracking of your packages and assets via fusion of sensors and GPS
- Environmental sensors for monitoring condition of sensitive shipments
- Computer vision for damage detection, visual inspection and predictive maintenance and analytics
- AI and 3D ToF cameras to improve productivity and driver safety: monitor for distracted driving, real-time alerts, live scene analysis, object classification and counting, assisted driver navigation and route optimization
- Ubiquitous connectivity for a global logistics deployment and management



Collaborating to Deliver Productivity and Mobility Tools based on Qualcomm® IoT processors



Workers









Managers and Supervisors





Hands-Free Solutions











Lift Truck Mobility

Inventing breakthrough technologies that fuel innovation







Qualcomm Making AI Power-Efficient & Pervasive

Focusing on high-performance hardware/ software and optimized network design



Efficient hardware

- Adapting to the state-of-the-art
- Heterogeneous compute
- Low power



Algorithmic advancements

- Research that benefits from state-of-the-art
- Optimization for space and runtime efficiency



Software tools

- Unified End-to-End Software stack
- Seamless run-time acceleration
- SDK/development frameworks



HVX HTA HTP

Peak Performance



Peak Power Efficiency



Notes: Qualcomm® Neural Processing SDK is used for benchmarking. Data is based on INT8 based inferencing.

AI HW Evolution - Performance & Power Efficiency



Manufacturing

Robot Navigation & Management:

Latency driven real-time defect inspection on conveyor belts



Warehouse & Logistics

People Navigation: Latency driven quickest route Real-time package sorting



Retail

Intelligent Inventory Management: Latency driving productivity Security-focused & Bandwidth driven last mile delivery

Intelligent Edge use cases growing at exponential scale in IoT

Provides a huge fragmented opportunity | Requires Unified AI Stack

End-to-end unified SW stack

IoT as a simple software problem



IoT begins with Qualconne

Let's accelerate digital transformation

Industrial

Manufacturing

Enterprise

Energy

Retail

Warehouse/Logistics

Thank you

Qualcomm

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