

# Advantech Qualcomm-Based Solutions



Qualcomm

ADVANTECH

*Enabling an Intelligent Planet*

# EdgeAI

## Computing Solutions

Accelerating AI Transformation in Embedded Markets

# Table of Contents

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## Shaping the Future of the Edge

Advancing Intelligence At The Edge: Advantech x Qualcomm	01
Worldwide Leadership in Embedded Platform Innovations and Design-in Services	03
Intelligent and Connected Edge Computing to Transform the Industry	05

## Edge+ Embedded Solutions

<b>Redefining the Edge with Qualcomm-Based Solutions</b>	07
QCS6490 / QCS5430	09
X Elite / X Plus	17
IQ9 / IQ8	23
Cloud AI100 Ultra	27

<b>Domain-Driven Software and Service Blueprint</b>	29
Edge Computing & Edge AI Software Solutions	31
Optimized Collaboration to Empower Your AI Journey	33

<b>Industrial Wireless Solution Enabling Seamless Connectivity for AIoT</b>	35
The Rise of Wi-Fi 7 Connectivity	37

## Use Cases

Gen AI-Enabled Interactive Kiosks	39
Robotic Lawn Mowers	40
Surgery Robot Video System	41

## Product Selection Guide

Computer On Modules, Single Board Computers	42
Edge AI Systems, Development Kits	43
4G LTE CAT6	44
5G NR FR1	45
Wi-Fi and 5G NR FR1 Bluetooth Combo, Antennas	46

<b>About Advantech</b>	47
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# Advancing Intelligence At The Edge

**In the era of AI transformation in embedded markets, Edge Computing and Edge AI have emerged as game-changers driving future innovation. Their unique combination of scalability, efficiency, and adaptability empowers industries to meet the demands of an increasingly connected world.**

As edge devices become more advanced, Qualcomm's Dragonwing™ products and solutions—powered by cutting-edge on-device AI, with rich connectivity—unlock new potential and elevate industries to new heights. With real-time processing capabilities and seamless AI integration, Qualcomm technology addresses the critical needs of emerging applications. Positioned at the forefront of edge innovation, it enables industries to adopt smarter solutions, optimize resource utilization, and scale innovation efficiently.

Through the collaboration between Advantech and Qualcomm Technologies, Inc., Advantech is proudly positioned as a key partner in Qualcomm Technologies' IoT ecosystem. With forward-looking design and adaptive capabilities, we are not only accelerating the deployment of intelligent solutions across industries—we are shaping the future of the edge.



## REAL-TIME

Enabling precise, real-time operations with advanced software and networking technologies for critical tasks.

**“ USD \$163 Billion ”**  
**Edge AI market to emerge globally by 2033.**

source: Market.us





### POWER EFFICIENCY

Minimized power consumption on edge devices, ensuring longer operation and lower power costs.



### PERFORMANCE & VISION AI

Providing high accuracy and efficiency through real-time visual data processing and productive multitasking for automated detection and decision-making.



### GENERATIVE AI

Personalized, interactive interfaces with real-time speech-to-text and text-to-speech for seamless edge device interactions.



### SECURITY

Delivering robust, multi-layered security through advanced technologies and industry standards.

# Worldwide Leadership in Embedded Platform Innovations and Design-in Services



Mini-ITX

Micro-ATX

Industrial Motherboards



2.5" Pico-ITX



3.5" SBC



4" SBC

Single Board Computers



Client Size A



Client Size C



Server Size D



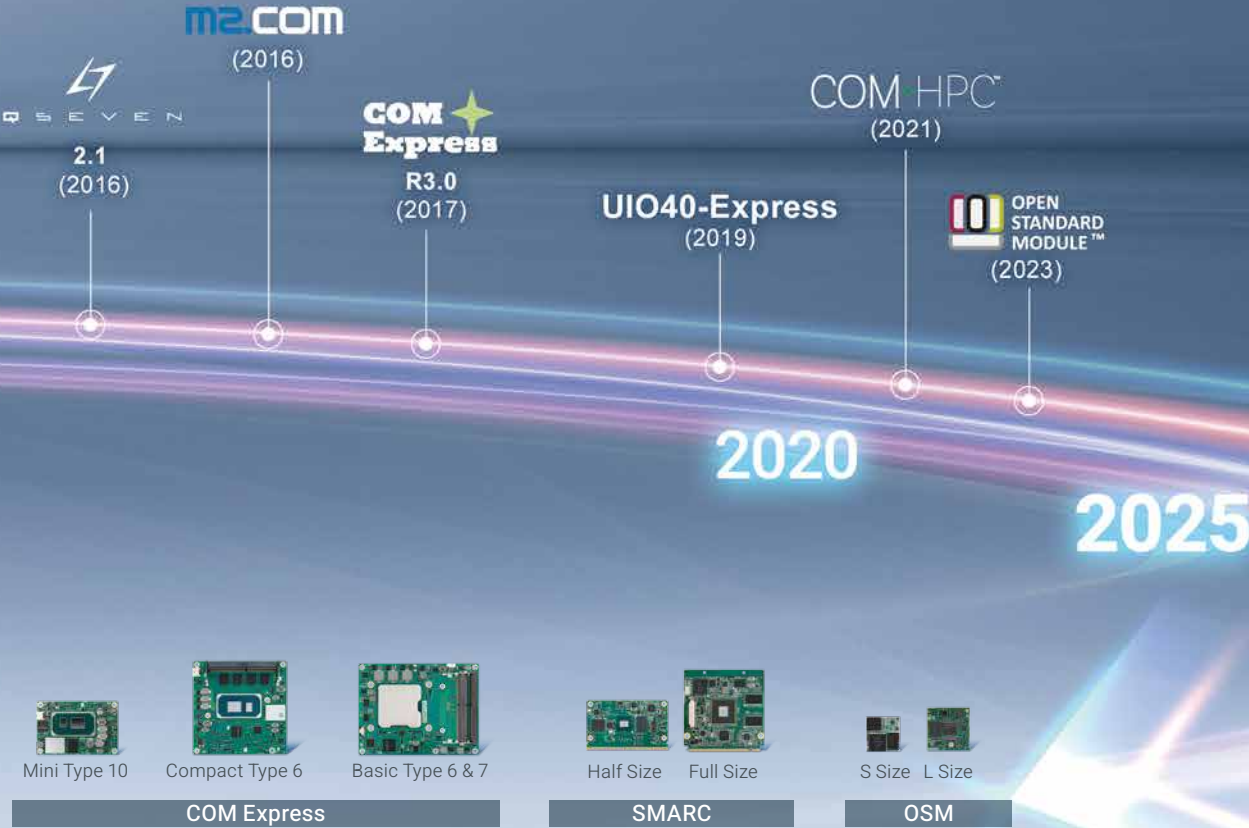
Server Size E

COM-HPC



Advantech stands as a global leader in embedded platform innovation and design-in services, driving technological advancements since 1990. With a rich standard form-factor portfolio spanning carrier board designs, thermal optimization, and AI acceleration modules, the company empowers diverse industries.

Advantech’s scalable edge computing solutions integrate robust hardware and software, ensuring seamless support for IoT and AI applications. Through its pioneering spirit, innovative ecosystems, and customer-centric approach, Advantech consistently sets new standards for industrial computing, enabling clients worldwide to unlock the full potential of edge and AI-driven technologies.





# Intelligent and Connected Edge Computing to Transform the Industry

Qualcomm's mission in the IoT market is to enable smart, connected devices that drive digital transformation across industries, enhancing efficiency, innovation, and sustainability through cutting-edge wireless and AI technologies.



## Intelligence

Qualcomm's NPU delivers industry-leading AI processing, enabling faster and more efficient edge intelligence. This provides customers with enhanced real-time data analysis capabilities, crucial for AI-driven IoT applications.

## Computing

Qualcomm's processors are optimized for high performance, offering superior processing power with low latency. This allows customers to run demanding applications smoothly, improving operational efficiency and response times.

## Connectivity

Qualcomm excels in connectivity, supporting advanced wireless technologies like 5G, Wi-Fi 6E and Wi-Fi 7. This ensures seamless and reliable IoT device communication, benefiting customers with faster data transmission and lower latency.

## Power Efficiency

Qualcomm's power-efficient designs maximize battery life while maintaining high performance. This offers customers the advantage of deploying IoT devices in energy-sensitive environments, reducing operational costs.



# Simplify and Accelerate Application Deployment

By providing comprehensive SDKs, AI models, software tools, and resources, developers can seamlessly integrate and deploy advanced solutions on Qualcomm platforms. This approach accelerates innovation across AI, 5G, and IoT, driving faster digital transformation.



# Redefining the Edge with Qualcomm-Based Solutions

Advantech is redefining the edge with an innovative portfolio of Qualcomm-based solutions, designed to meet the evolving demands of diverse industries. Our offerings include scalable pre-configured AI-ready edge systems, standardized AI modules and boards for rapid development, and industrial appliance solutions tailored to specific industry needs. These advanced solutions empower businesses to accelerate AI deployment, enhance operational efficiency, and seamlessly integrate intelligent systems. With a focus on scalability, performance, and sensor integration, Advantech delivers the tools necessary to unlock the full potential of AI at the edge.



## AI-Ready Edge System

Scalable and pre-configured solutions to accelerate edge AI application deployment.

## AI on Modules & Boards

Standardized AI modules and boards that simplify and expedite the development of AI-enabled equipment.

## Industrial Appliance

Tailored to specific industries with system expertise and sensor integration.



# Qualcomm Platform Adoption Plan

Qualcomm's platform portfolio perfectly addresses the current demands for mid-to-high-tier Arm computing performance. The Dragonwing QCS6490 and QCS5430 platforms deliver 12 TOPS of AI processing power, efficiently meeting industrial edge requirements. With support for a comprehensive OS ecosystem—including Windows, Ubuntu, Yocto, and Android—these platforms enable faster adaptation to diverse application scenarios. Building on this foundation, the Snapdragon X Elite / X Plus platforms elevate performance to 45 TOPS, catering to data-intensive and advanced AI applications. Looking ahead, the Dragonwing IQ9 and IQ8 platforms push the boundaries with 100 TOPS, offering exceptional computational power for high-performance AI workloads. With a tiered approach and robust OS support, Advantech is poised to penetrate various application markets, delivering scalable, high-performance Arm-based solutions seamlessly.





Ready-to-Use and Power-Efficient Edge AI Solution

# QCS6490 / QCS5430

Up to Octa-core, 12 TOPS, TDP 6~9 Watts

Windows 11 ubuntu<sup>®</sup> yocto<sup>®</sup> PROJECT android



## High Performance, Low Power

QCS6490 combines up to 8-core CPUs for superior edge processing and design flexibility in a low-power package.

## Powerful AI-for-Edge Solution

Support for new-generation, power-efficient 12 TOPS NSP AI engine supporting multiple channels and multiple AI models concurrently.

## Multiple OS and Longevity Support

15-year\* long-term support for OS and security updates, allowing customers to build products based on the same hardware design.

\*QCS6490 until 2035; QCS5430 until 2032.

## Target Applications



Handheld Equipment



Self-Service

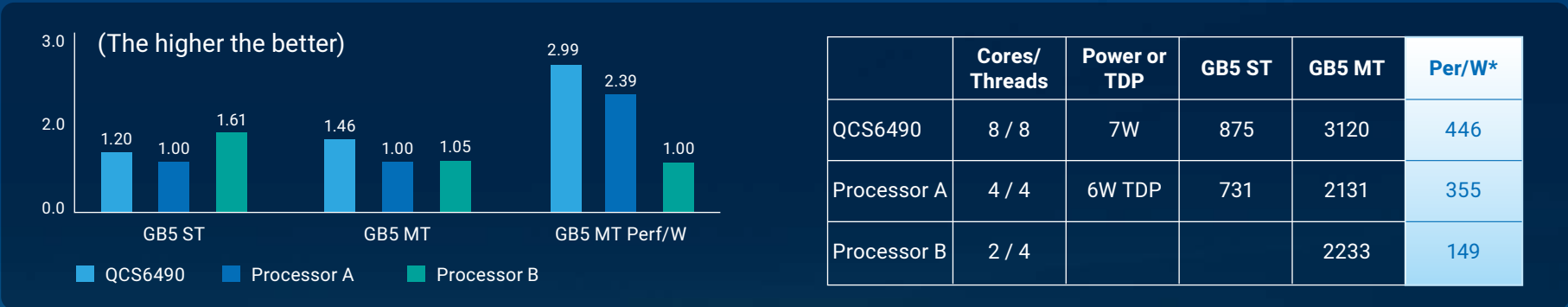


Industrial Automation

# CPU Benchmark Comparison

## QCS6490 vs. x86 Competitor Processors

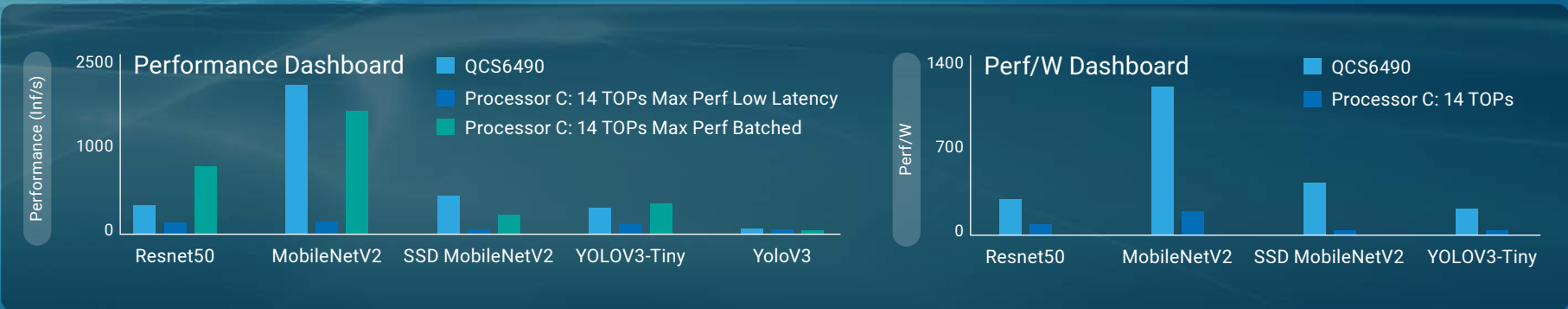
QCS6490 has higher performance per watt than both Processor A (up to 1.25x) and Processor B (up to 2.99x).



# AI Competitive Landscape

## QCS6490 vs. Processor C

Qualcomm's integrated AI leads in power efficiency and beats Processor C's performance in low-latency-driven use cases.



# AOM-2721

Open Standard Module Size-L

QCS6490	Phase In	Q1 2025	Longevity	Q1 2035
QCS5430	Phase In	Q1 2025	Longevity	Q2 2032



A new era for  
compact edge AI

## Features

### High-Performance Processing

- Qualcomm® 8x Kryo™ 670 ArmV8 cores up to 2.7GHz
- Qualcomm® Hexagon processor, capable of delivering up to 12 TOPS
- 4K30P full-duplex video codec, supporting OpenCL/GL for vision developments

### Network and I/O Connectivity

- USB 3.2 Gen1 for Qualcomm 5G module SDX62
- USB 2.0 and PCIe Gen3.0 for Qualcomm WCN6856, Wi-Fi 6E, and BT V5.3
- 2 x GbE (Gigabit Ethernet), 1 x USB 3.2 Gen1, 2 x PCIe for expansion connectivity
- 1 x MIPI-DSI, 1 x eDP (share MIPI-DSI) and 1 x DP for multiple displays

### Compact Design and Outdoor Durability

- Compatible with various OS including Windows, Ubuntu, Yocto, and Android for the different applications
- On-board OSM design fulfills the outdoor and anti-vibration applications

## Applications



Robotics / Automation



AMR / Drone



HMI / AIO



# AOM-5721

SMARC 2.2 Half

QCS6490 

Phase In	Q4 2025	Longevity	Q4 2035
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QCS5430 

Phase In	Q4 2025	Longevity	Q2 2032
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## Features

### High-Performance Processing

- Qualcomm® Kryo™ 670 CPU with 8 ArmV8 cores at up to 2.7GHz ensures powerful computation
- The Qualcomm® Hexagon processor delivers up to 12 TOPS for robust on-device AI, enhancing machine vision and efficiency
- With an ISP and VPU, the AOM-5721 supports 4K60 video decoding and pre-processing

### Multi-I/O Connectivity

- Offers versatile I/O for AIoT, up to 2 x GbE, 2 x USB 3.2 Gen2, 4 x USB 2.0, 3 x PCIe3, 1 x MIPI-DSI, 1 x eDP and 1 x DP, ensuring seamless sensor and peripheral integration.

### Comprehensive Software Support for Linux and Windows

- Unified core, driver, and longevity maintenance
- Modularized value-added app and SDK framework
- Multiple OS support, Windows and Ubuntu

### New Form Factor for AI

- Featuring an ultra-thin AOM with MXM 3.0 connector, this design enhances space efficiency, facilitating seamless integration into confined spaces



Empowering efficiency  
and AI at the edge

## Applications



Robotics / Automation



Smart Retail

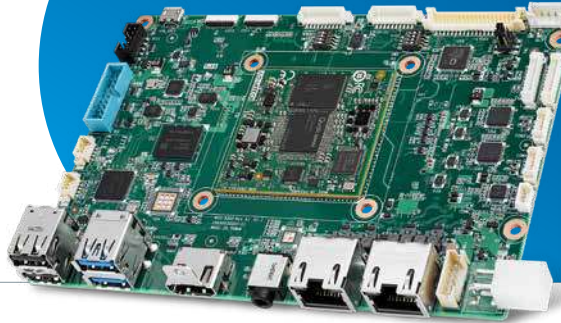


Medical Equipment

# MIO-5355

3.5" Single Board Computer

QCS6490	Phase In	Q4 2025	Longevity	Q1 2035
QCS5430	Phase In	Q4 2025	Longevity	Q2 2032



Ready-to-use  
power-efficient  
edge AI solution

## Features

### High Performance with Build-in NPU, but Low Power Computing

- 8x Kryo 670 CPU from 1.9 up to 2.7 GHz + Adreno GPU 643
- Up to 12.5 INT8 TOPS from integrated NPU for AI inference applications

### Rugged On-Board Design and Extended Temperature Range

- 8GB LPDDR5 on-board memory and 128GB UFS or 64GB eMMC on-board storage
- 3 x standalone M.2 slots for solid extension: E-Key 2230 for Wi-Fi/BT, B-Key 3052 for 4G/LTE, M-Key 2280 for NVMe SSD
- -20~70°C extended operating temperature range

### Multi-I/O Interface and Multi-Display

- 2x GbE, 6x USB, 4x COM, 2x I2C, 2x MIPI-CSI, 1x 8b GPIO, 1x Audio Combo Jack
- LVDS or eDP (Optional) + HDMI

### Flexible OS and Longevity Support

- Multi-OS support with Windows 11 IoT LTSC and Ubuntu (22.04)
- Hardware and Software technical support up to 2036

## Applications



Industrial Automation



Self-Service Kiosks



Handheld Equipment

# DS-011

Ultra-Slim Digital Signage System

Phase In Q4 2025 Longevity Q1 2035



Ultra-slim box with  
12 TOPS and dual 4K  
UHD digital signage

## Features

### Enable Machine Vision for Edge AI Applications

- Built-in Qualcomm QCS6490 & Adreno 642 GPU (12 TOPS)
- TensorFlow, PyTorch and ONNX AI Framework support

### Dual 4K Display and GMSL Camera Support

- 2 x (3840 x 2160) HDMI 2.1 TMDS ports for dual 4K signage
- 2 x GMSL Camera I/O interface support for AI big data analysis

### Factory Reset Mode for Project Developer

- Qualcomm Debug mode and download mode support for Developer
- Rescue the EMMC OS / NVME OS from DeviceOn apps. (ODM Support)

### 22mm Slim and Fanless AI Box for Limited Space Setups

- Industrial environments: factories, smart cities, hospital Edge AI devices
- Commercial environments: chain stores, pedestrian zones, public space AI signage

## Applications



Safety Monitoring Signage



UHD 4K Retail Signage



X-Ray Check Signage



# ASR-D501

UAV Module

Preliminary



**Dedicated controller  
for drone applications**

## Features

### Excellent Computing and AI Performance with Low Power

- Qualcomm QCS6490 Kryo 8 Cores up to 2.7GHz
- Built-in 12TOPS AI accelerator
- AI streaming, Visual SLAM, gimbal

### Dedicated Design for Industrial Applications

- Fan-less thermal design.
- Supports DC input of 5-12V for 3S/6S battery connection
- Operation temperature from -20 ~ 70°C

### Dedicated I/Os for Drones

- 2 x GbE (GH connector), 2 x USB 3.0 (Type C) for LiDAR & depth cameras, etc.
- 3 x UART, 1 x I2C, 8 x GPIO (GH connector) for multiple sensors
- 2 x CAN-FD for connecting to flight controllers
- M.2 expansion slot, for LTE/5G/GPS add-on modules

### Low Latency Visible Camera Embedded

- 5 x MIPI-CSI with stackable camera-interfaced sensor module

## Applications



Delivery



Smart Agriculture



Inspection

# CAM-7521P

AI-Powered Multiple Function 3D Camera

Preliminary



High quality vision  
device for industrial  
edge AI

## Features

### Enable Machine Vision for Edge AI Applications

- Equipped with Qualcomm QCS6490 OSM with excellent computing power
- Built-in iToF and RGB cameras for high-quality RGB-D (depth) data

### Rugged System Design for Harsh Environments

- Full system IP65 protection against water and dust
- M12 connectors for PoE and data synchronization
- Operating temperature range: 0~45°C
- Fanless operation

### Comprehensive Software and Technical Support

- Complete camera tuning software SDK, API, and documents
- Built-in depth calculation algorithm

### Fully Compatible with Microsoft Azure Kinect DK

- Same quality and performance for depth and RGB image processing
- Compatible API with Microsoft Azure Kinect Sensor SDK

## Applications



Parcel Logistics



Robotic Arms



Parcel Dimensioning

# X Elite / X Plus

Up to 12 cores, LPDDR5X 16GB, 45 TOPS

 Windows 11



## High-Performance Processing

- Snapdragon X1 Elite 12C/X1 Plus 10C Orton CPU up to 3.4GHz
- LPDDR5X and UFS 4.0 Gear5 for high speed data operations.
- Integrated Qualcomm Wi-Fi 6E & 5G drivers for connectivity.

## Powerful Multimedia

- Snapdragon Adreno 5th Gen. VPU 4K60P full duplex Codec.
- Snapdragon Adreno Snapdragon X GPU featuring OpenCL/G.
- Integrating Microsoft DirectX12 libraries.
- Hexagon DSP for Audio accelerations.

## Comprehensive AI Packages

- Hexagon NPU capable 45 TOPS.
- Up to 75 TOPS with CPU and GPU.
- 100+ pre-trained and optimized AI models on Qualcomm's AI Hub website.

## Target Applications



Robotics



Machine Vision



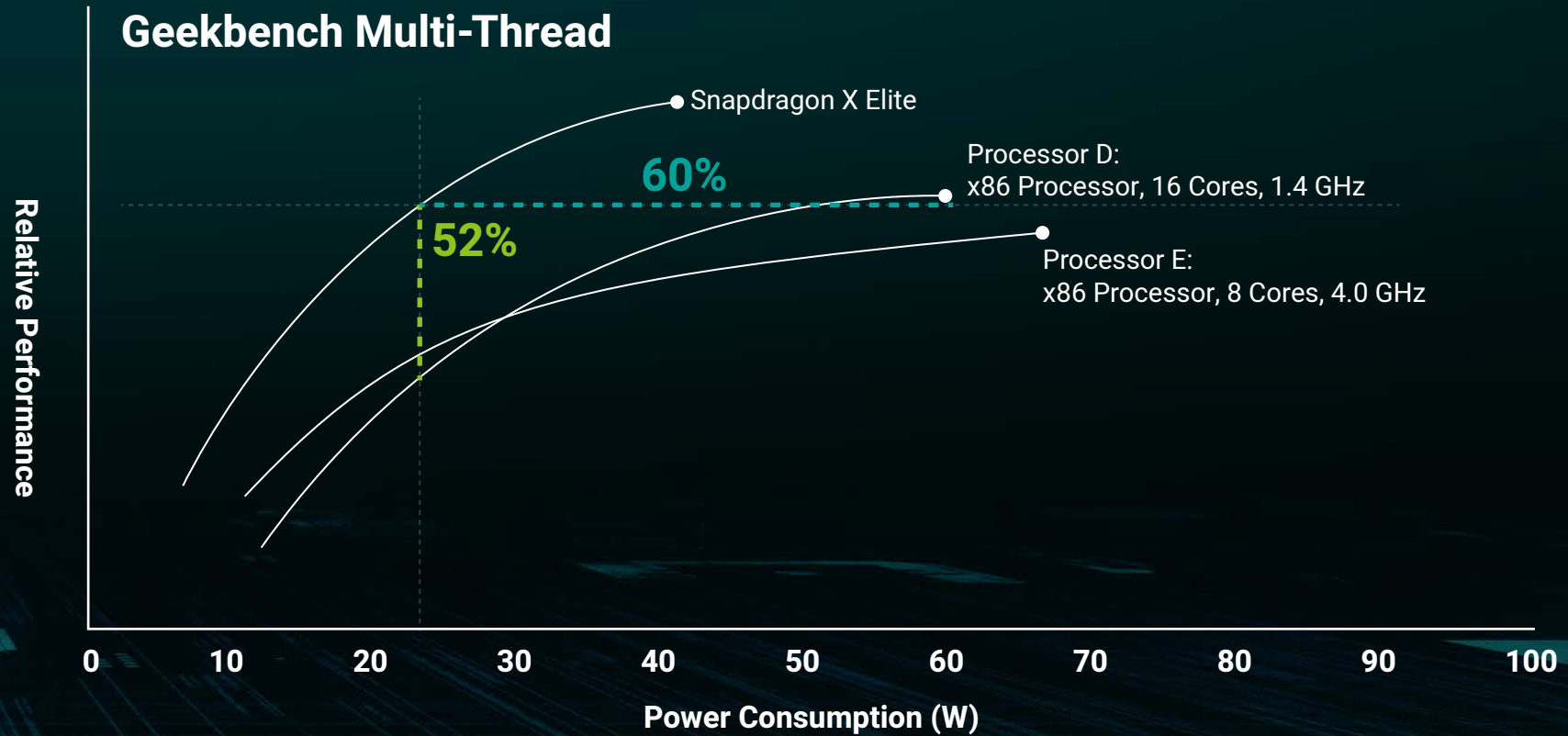
LLM & Generative AI



# Multi-Threaded Performance

## Snapdragon X Elite vs. x86 Competitor Processors

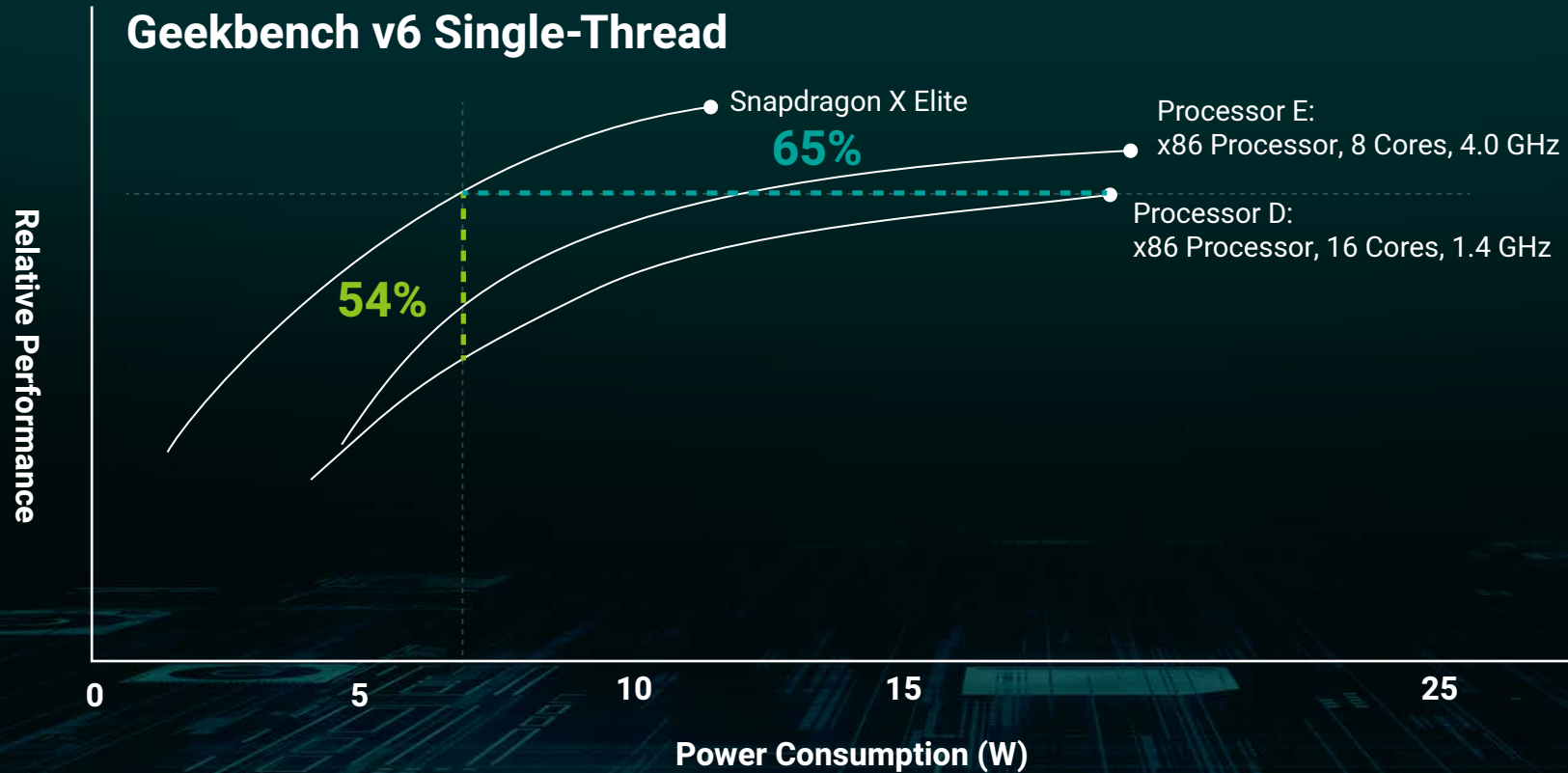
- Up to 52% faster CPU performance vs. the competition at ISO power
- Matches competitor peak PC performance at 60% less power



# Single-Thread Performance

## Snapdragon X Elite vs. x86 Competitor Processors

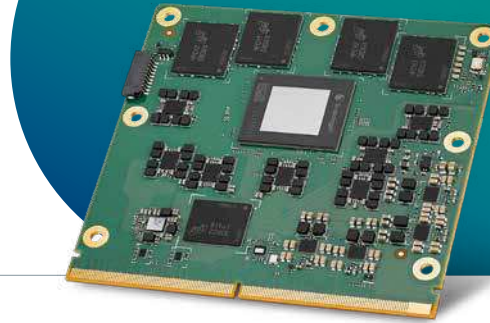
- Up to 54% faster CPU performance vs. the competition at ISO power
- Matches competitor peak PC performance at 65% less power



# AOM-6731

SMARC 2.2 Full

Phase In Q4 2025 Longevity Q4 2032



A new era of the powerful  
efficient AI module

## Features

### High-Performance Processing

- Qualcomm 12 Kryo CPU cores up to 3.4GHz
- Qualcomm Hexagon processor, up to 45 Tops for robust on-device AI computation
- Adreno 5th Gen. VPU for 4K60P Codec, Adreno GPU supports DirectX 12.2, OpenCL/GL for vision applications

### Network and I/O Connectivity

- USB 3.2 Gen2 for Qualcomm 5G module SDX62
- USB 2.0 and PCIe Gen3.0 for Qualcomm WCN6856 for Wi-Fi 6E and BT V5.3
- 2 x GbE (Gigabit Ethernet), 2 x USB 3.2 Gen2, 2 x PCIe for the expansion connectivity
- 1 x eDP and 1 x DP for multiple displays

### Compact and Flexible Design

- SMARC 2.2 Full built-in onboard LPDDR5X, UFS storage for ruggedized requirements
- Advantech Edge AI SDK for faster and more efficient AI
- Utilizing Qualcomm AI Hub for 100+ pre-trained and optimized AI models for faster integration

## Applications



Intelligent Surveillance



Manufacturing



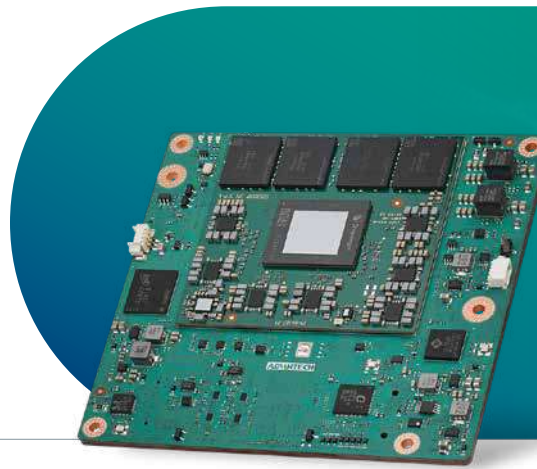
Fleet Management



# SOM-6820

COM Express Type6 R3.1 Compact

Phase In Q4 2025 Longevity Q4 2032



**1st Arm COMe with  
native AI solution for  
seamless AI integration**

## Features

### Advanced Performance with Exceptional Power Efficiency

- Qualcomm Oryon CPU supports 12 Cores up to 3.8GHz
- 45W TDP, high performance per watt for edge computing
- Supports LPDDR5X up to 64GB

### Excellent AI Performance with Comprehensive SW Support

- Adreno GPU supports up to 4.6 TFLOPs AI
- Hexagon™ NPU supports 45 TOPS AI
- Edge AI SDK escalates AI evaluation and development

### Versatile, High-speed I/O with Minimal Latency

- Maximum 16x PCIe lanes support up to Gen4
- 4 x USB3, 4 x SATA, 1 x GbE

### Design-in Service Makes Implementation Effortless

- Windows 11 IoT ready-to-use OS environment
- QFCS thermal solution delivers 100% performance under 0-60°C conditions

## Applications



Humanoid Robots



Medical Imaging



Factory Automation

# AIMB-293

Mini-ITX Industrial Motherboard

Preliminary

## Features

### Enhanced Productivity with Efficient AI Computing

- Superior AI performance with up to 12C X1, and LPDDR5
- 45TOPs Hexagon™ NPU.
- Low latency and Power efficiency for Edge Inferencing

### Easy Integration Leveraging THIN Mini-ITX

- High-speed I/O: 4 MIPI-CSI and rich USB configuration for cameras
- Wireless connectivity by M.2 expansion
- Flexible and ready-to-use standard industrial motherboard



Accelerate deployment  
with Mini-ITX for low  
latency AI inferencing

### Reliable Design for Long-Term Operation

- Stability enhanced with memory down, SoC and SSD onboard
- Compact QFCS thermal solution to ensure consistently high performance

### Windows and AI Toolkit Accelerate Development

- Windows 11 IoT ready-to-use OS environment
- Edge AI SDK for performance evaluation and software design

## Applications



AMR/AGV



Collaborative Robots



Self-Service Kiosks

Exceptional AI Performance in Harsh Environments

# IQ9 / IQ8

Up to Octa-core, LPDDR5 32GB, 100 TOPS



## Superior Performance with AI

8-core CPU at 2.35GHz, delivering powerful computing performance. The integrated AI engine achieves 100 TOPS, offering exceptional AI performance and LLM flexibility to support customers' own AI models.

## Rugged & Reliable

LPDDR5 with ECC support with an operating temperature range of -40 to 85°C, IQ-9100 is built to withstand even the harshest conditions. The Safety Island also ensures functional safety, preventing potential accidents.

## Development Friendly

The ready-to-use Linux software stack, AI Hub, and support for multiple operating systems make it easy for customers to develop, validate, and deploy applications and AI solutions on the IQ-9100.

## Target Applications



Robotics/Automation



Drone/Transportation



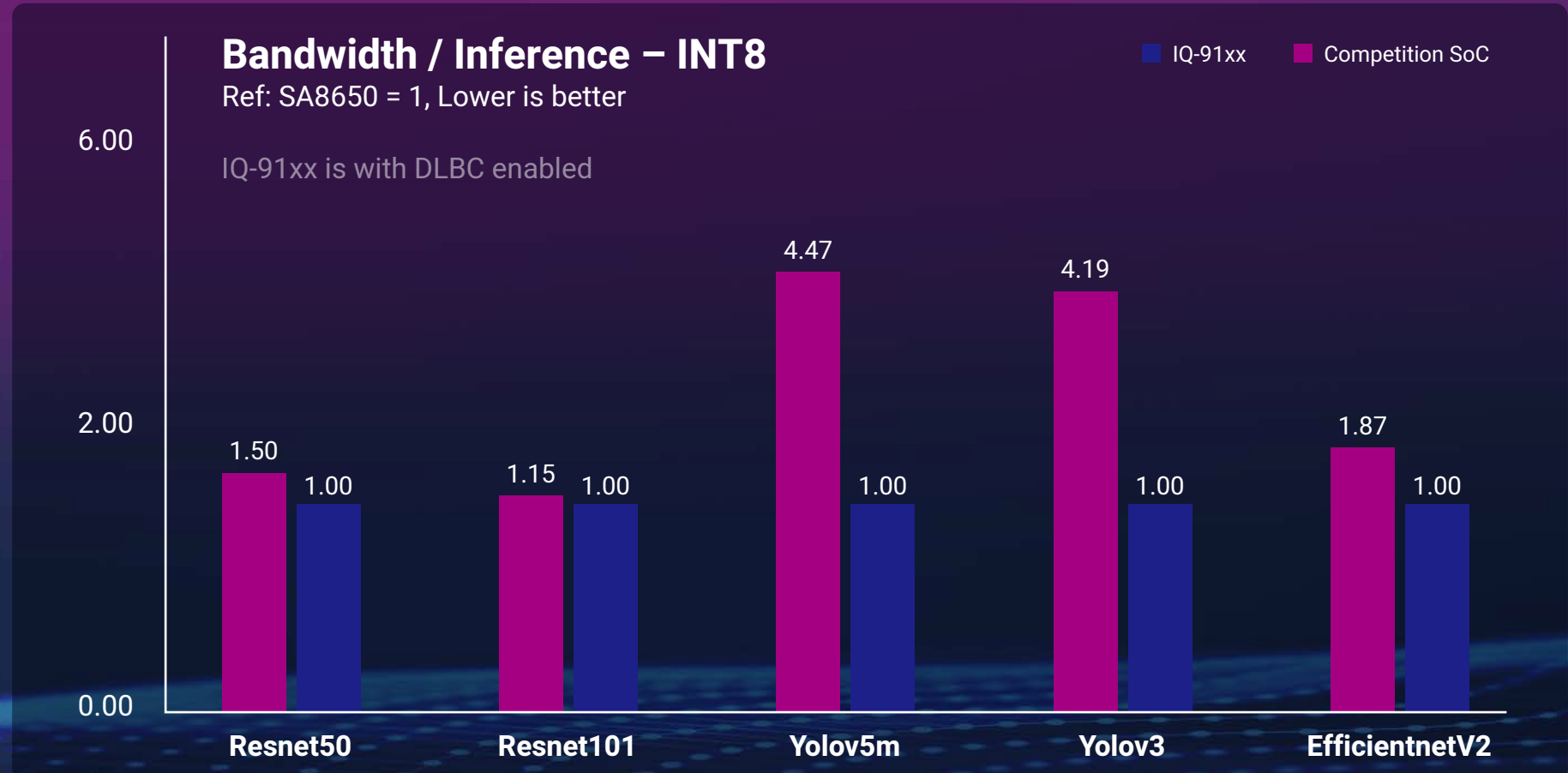
Aerospace/Mission Critical



# Efficient Bandwidth Compression

## Compared to the Competition

Efficient bandwidth compression (BW/Inference) which shows up to ~14x-16x improvement for some higher resolution models compared to competitors' solutions.



# AIR-055

Edge AI Inference System

Phase In Q2, 2026 Longevity Q1, 2038



A rugged, high-performance edge AI system for industrial vision

## Features

### High-Integration I/O for Imaging AI

- IQ-9075M up to octa-core, LPDDR5 36GB, 100 TOPS
- Dual MIPI-C with MIPI CSI2 D-PHY for direct camera input
- Supports up to 8 x GMSL1/2 cameras via AMO-0211GMSL dongle
- Dual 2.5GbE LAN with optional PoE for high-speed video streaming
- HexaDisplay output via HDMI, DisplayPort, and USB-C (DP-Alt Mode) for up to six simultaneous display outputs

### Modular Design for System Flexibility

- 3 x M.2 slots (NVMe, Wi-Fi/BT, 5G/LTE)
- Supports local storage and wireless transmission
- Operates in -20°C to 60°C, ideal for field and edge deployments

### Integrated AI Inference Framework

- Compatible with Advantech Edge AI Inference Kit
- Supports Phison aiDAPTIV+ for fast inference and efficient model compression

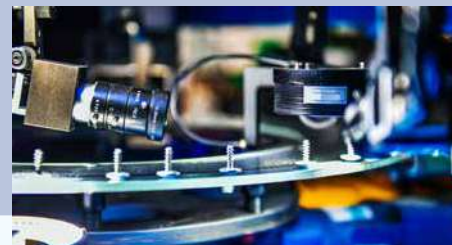
## Applications



Smart Inspection Assistant



Autonomous Mobile Robot



Multi-Angle Inspection for Manufacturing Defects

# AFE-R751

## Robotic Controller

## Preliminary



## Dedicated controller for AMR applications

## Features

## Great AI Performance in an Ultra-Slim Form Factor

- IQ-9075M up to octa-core, LPDDR5 32GB, 100 TOPS
- Compact size for robot integration

## Rugged and Reliable Design

- 20-28 VDC for battery connection with sufficient tolerance
- ESD and TVS protection: up to 2kV (direct pin), 8kV (contact), 15kV (air)
- Wide operating temperature range: -20 to 60°C

### Dedicated I/Os for AMR

- 4 x GbE, 4 x USB 3.2 for Lidar, sensors, TOF cameras, etc.
- 2 x RS-232/422/485
- Isolated 16-bit DIO for light indicators, e-stops, etc.
- Isolated CAN bus for motors
- 8 x GMSL FAKRA camera connectors

## Easy to Maintain

- Remote control Power Switch / Reset / LED
- Supports an external AMR system fan (12V)

## Applications



## Patrol Robots



## Cobots



## Forklifts

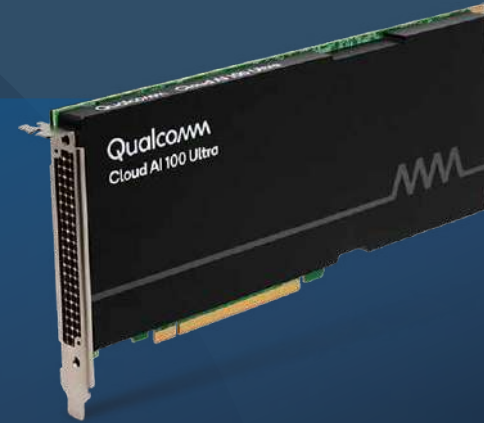


AI acceleration cards designed for Vision AI and Generative AI

# Cloud AI100 Ultra

Up to 64 AI cores, 128 GB LPDDR4X 870 TOPS

ubuntu



## Superior AI performance

The Qualcomm AI100 Ultra offers 870 TOPS of AI processing. Built with up to 128GB of LPDDR4X memory and ECC support, the AI100 Ultra can handle LLM models with up to 100B parameters.

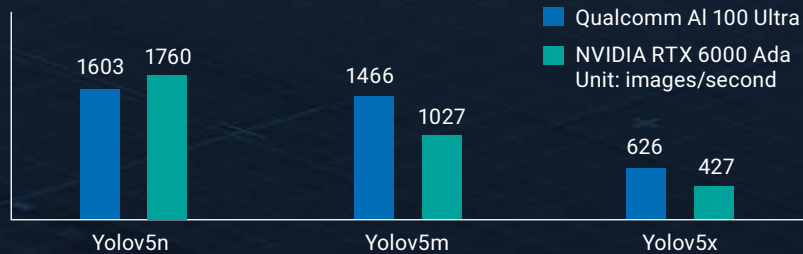
## Exceptional Power efficiency

Qualcomm AI 100 Ultra achieves >1500 (tokens/s) in the Llama 7B model, and >110 (tokens/s) in the Llama 70B model, while maintaining TDP of only 150W.

## Useful AI Toolkits

The Qualcomm AI Inference Suite includes pre-trained applications and libraries for Generative AI and Vision AI, simplifying the deployment of AI solutions such as chatbots, image generation, transcription, translation, and RAG.

### Vision AI Inference



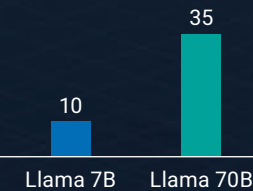
Testing condition:

Running popular object detection model by ONNX conversion under Ubuntu 22.04 on AIR-510 edge system (Kernel: 5.15, Batch size: 1, Data type: FP16, Resolution: 640 x 640)

### LLM Inference

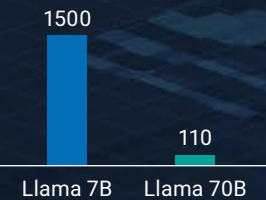
#### Average Token Latency

Unit: milliseconds



#### Throughput

Unit: tokens/second



Source:

Qualcomm Cloud AI 100 Ultra Large-Language Model (LLM) inference Performance April 2024

# AIR-510

AI Inferencing Edge Server

Phase In Q4, 2024 Longevity Q1, 2033



Edge server with best  
TCO AI computing power

## Features

### Best TCO Edge AI Server

- Powered by 14th Gen Intel® Core™ processor to provide up to 24 cores
- Supports DDR5 up to 192GB
- Offers 128GB DDR AI exclusive capacities and 288 TFLOPs (FP16) with Qualcomm Cloud AI 100 series

### Remote Management and Connection

- Built-in DeviceOn for remote management
- Up to 3 x 2.5GbE LAN for smooth data streaming

### Industrial-Grade System Certification

- ESD protection designed to sustain IEC Level 4 discharge
- EMC compliance with IEC-61000 certificate

### Fast AI Deployment Edge Server

- Option to pre-load Ubuntu OS
- Shorter time-to-market based on Qualcomm optimized neural networks

## Applications



LLM / Generative AI



Object Detection



Smart Cities

# Domain-Driven Software and Service Blueprint

Advantech, in collaboration with Qualcomm, integrates three foundational modules—value-enhanced OS, edge applications, and scalable cloud services—to empower next-generation edge AI and IoT ecosystems.

With a global team of over 1,000 software and technical design experts, Advantech excels in delivering customized solutions for BIOS, OS, and APIs, ensuring seamless integration and optimized system performance. Supported by a global network of 90 distribution services and R&D sites, Advantech provides efficient and innovative services.

By fostering early engagement and leveraging ecosystem partnerships, Advantech strengthens customer collaboration, enabling agile deployment, streamlined workflows, and scalable solutions tailored to the most demanding edge-to-cloud applications.



Learn about  
Advantech AIoT Software & Services



# Customer-Centric Support and Service

## Experienced Experts

**1,000+**

Software and Technical Design Experts

## Global Customer Base

**\$10 Million+**

Cumulative Software Sales

## Design-in Services

**1,000+**

Customized Software-Firmware-Hardware



## Worldwide Network

**90**

Distribution Services and R&D Sites

## Ecosystem Partnerships

Early Engagement and Backend Support

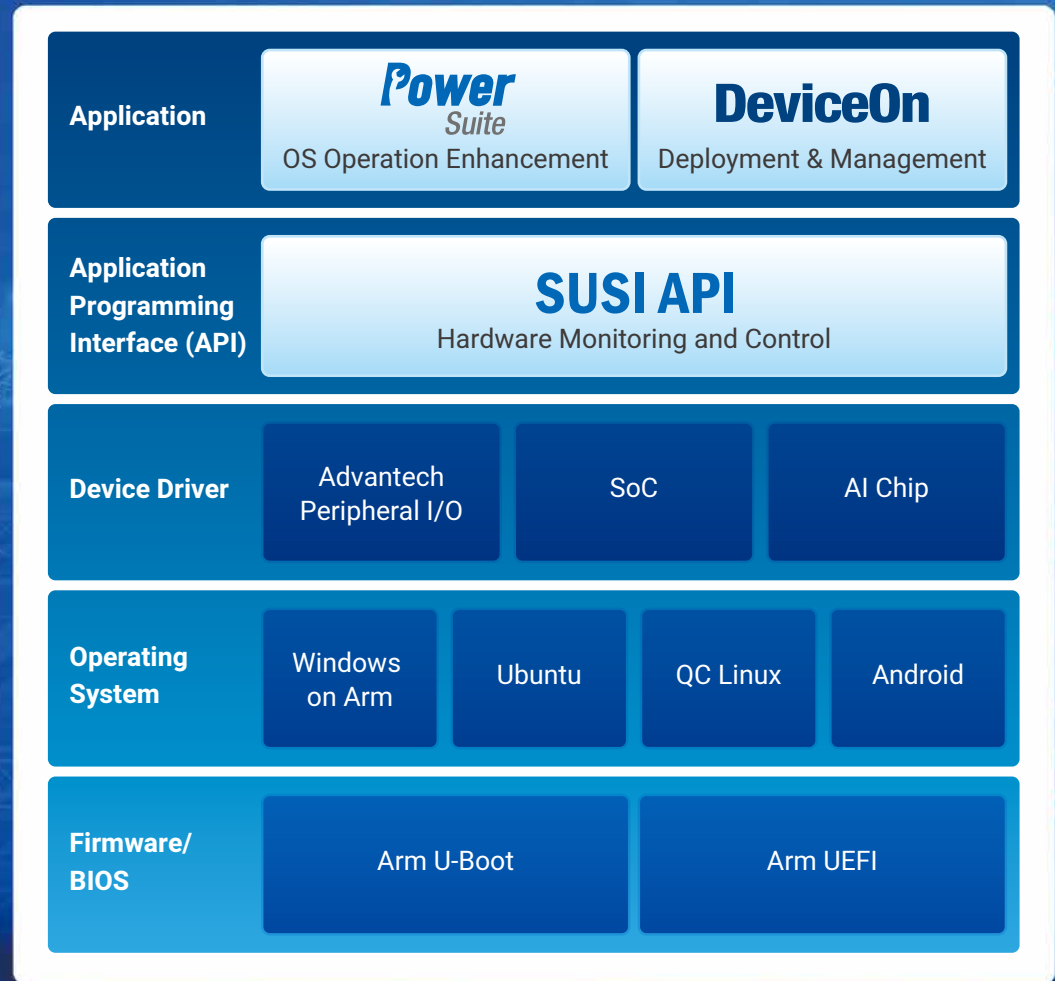
# Edge Computing & Edge AI Software Solutions

Advantech embedded software integrates foundational software development, device management, and cloud services to address the growing demands of edge AI and diverse industries.

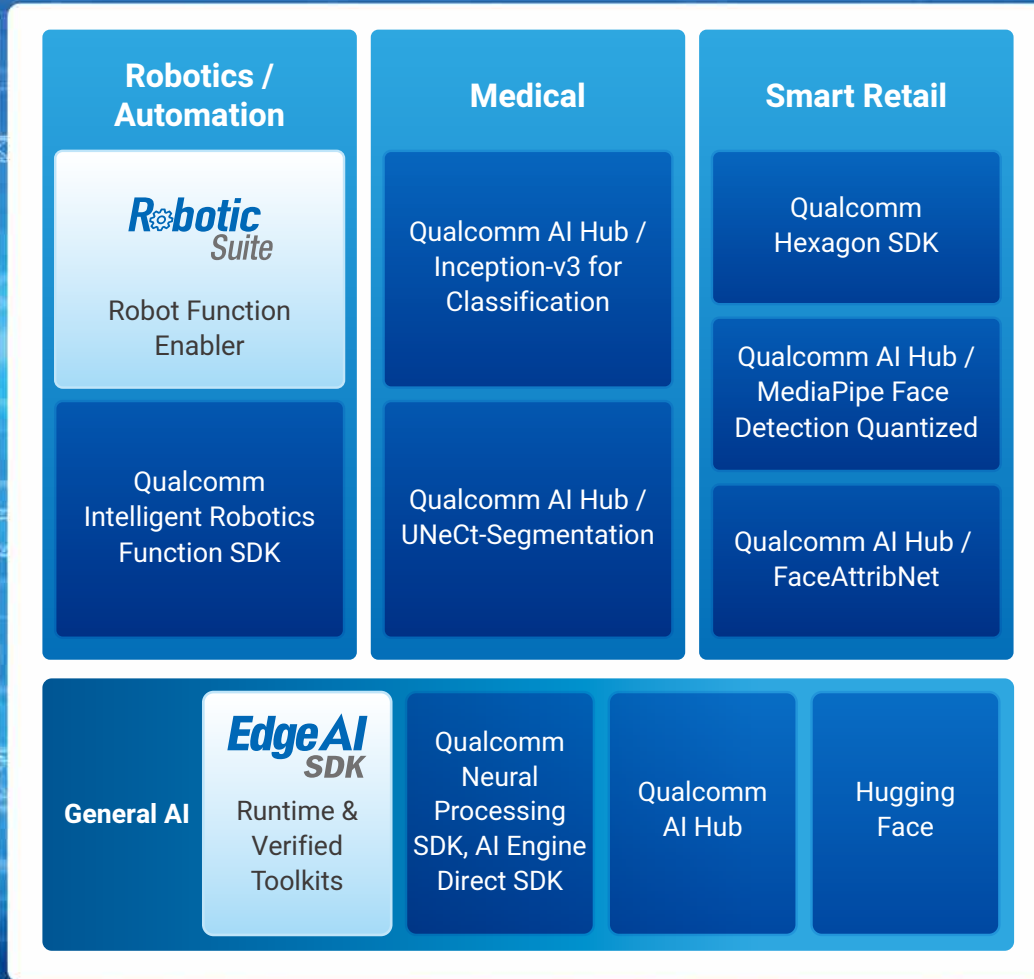
Advantech supports four major operating systems: Windows on Arm, Ubuntu, Qualcomm Linux, and Qualcomm Android, all tailored for embedded and industrial-grade applications. Each OS provides unique benefits, including long-term support, seamless integration, and scalability to meet diverse edge AI and IoT needs. Additionally, scalable cloud services bridge edge and cloud computing, offering robust tools for AI model deployment, migration, and system scalability.

Qualcomm's AI advancements and Advantech's expertise in embedded solutions empower industries like robotics and automation with intelligent, scalable tools. The Advantech Edge AI SDK seamlessly integrates with hardware, offering a compatible AI inference development platform, while the Advantech Robotic Suite enhances development by providing ROS2 nodes tailored to Advantech boards and peripherals. This collaboration accelerates robotic application integration, enabling businesses to achieve smarter, faster, and more efficient operations, setting new benchmarks in innovation.

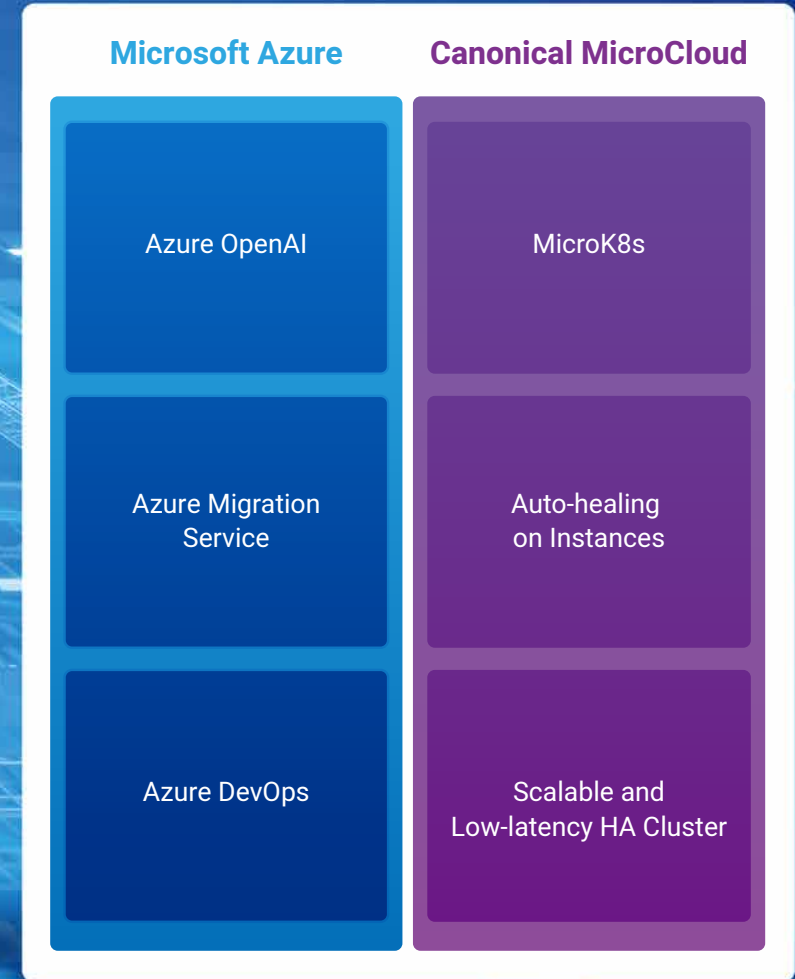
## Value-Enhanced OS



## Edge Applications



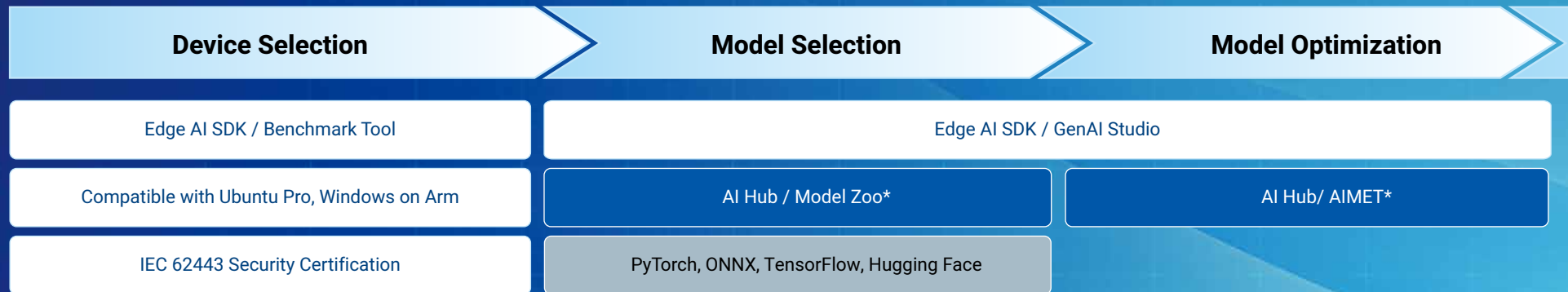
## Scalable Cloud Services





# Optimized Collaboration to Empower Your AI Journey

We've simplified the complexities of edge AI development workflows through the seamless integration of Advantech and Qualcomm technologies. No matter the challenges or stage in development, our comprehensive tools and services provide tailored support to accelerate progress. From hardware and software compatibility to robust technical solutions, the collaboration between Advantech and Qualcomm empowers developers to deliver innovative edge AI applications efficiently and effectively.



- Advantech Offerings
- Qualcomm Offerings
- Open Source

\* AI Hub/Model Zoo: 100+ pretrained models using TensorFlow, PyTorch, ONNX or Keras

\* AI Hub/AIMET: An open-source library for advanced model quantization and compression

✓ **Essential Runtime Environments  
and Tools Ready for Use**

✓ **Industry-Focused Reference  
Examples Provided**

✓ **End-to-End Support in  
Collaboration with Qualcomm**

### AI/ML Application

Edge AI SDK / Runtime SDK

Edge AI SDK / Workflow Navigator

Edge AI SDK / GenAI Studio

Neural Processing SDK, AI Engine Direct SDK

Intelligent Robotics SDK

Intelligent Multimedia SDK with GStreamer plugins

Hexagon SDK for Hexagon DSP Apps

Reference Blueprints & Microservices by  
IoT Solutions Framework

### Model/App Deployment

Edge AI SDK / DeviceOn

Acronis for Backup, Recovery

Trellix for Cyber Security

Azure for MLOps Integration

FoundriesFactory for Linux Device Mgmt.



Gen AI



Robotics



Medical



Smart Retail



Smart Manufacturing

# Industrial Wireless Solution

## Enabling Seamless Connectivity for AIoT

### New Generation Technology Provider

- Wi-Fi 7
- MCU+Wi-Fi 6
- 5G Redcap
- LTE Cat. 1bis

### Longevity Support Industrial-Grade Products

- 5-year product lifecycle
- -40~85°C temperature support

### Wireless System Integration

- Antenna design
- FW and driver support

### RF Testing & Certification Services

- Global RF certification
- Wireless performance testing



AIW 100 Series  
**Wi-Fi**



AIW 200 Series  
**GNSS / GPS**



AIW 300 Series  
**Cellular**



AIW 400 Series  
**Bluetooth**



AIW 500 Series  
**Antenna**



# Wireless Market Focus and Star Solutions

Advantech Industrial Wireless (AIW) is a leading wireless solution provider empowering edge devices by connecting them via wireless technologies for AIoT. AIW offers diverse module and antenna solutions for different vertical applications and focuses on wireless system integration based on their AIW Design-In service.



Agriculture



Medical



EV Chargers



Transportation



AMR



Smart Cities



Retail

## Wi-Fi 6E / Wi-Fi 7

### AIW-100 Series

- Well-established standard
- High indoor network coverage
- High-speed connection
- Made for industrial applications

WiFi 6E WiFi 7



AIW-170



AIW-173

## 4G LTE / 5G NR

### AIW-300 Series

- Wide spectrum efficiency
- High traffic capacity
- Fastest connection speeds
- Excellent longevity support

4G LTE 5G



AIW-344



AIW-356



#### Throughput Enhancement

Max speed up to 46.4Gbps to satisfy application areas like medical and Edge AI with demand for massive real-time data transmission.



#### Latency Improvement

Additional 6Ghz bandwidth and puncturing help lower latency to 1ms and enhance stability.



#### Ready-to-Go Certificate

AIW products have global certificates to help customers speed up the certification process and reduce cost.



#### High-Speed Connectivity

5G technology brings new bandwidth power for applications with 4K/8K video demands.



#### Latency Improvement

Average latency via 4G is 50ms, and through 5G the latency can be lowered to 1ms and provide more connections.



#### AIW Tool Support

The AIW tool simplifies installation and provides a record of any disconnection and reconnection.

Future-Driven Solution:

# The Rise of Wi-Fi 7 Connectivity

Qualcomm  
Wi-Fi 7 solution  
(-40~85°C)

Extremely low  
latency -1ms

Multi-Link  
operation and DBDC  
support

FCC/CE/IC/  
TELEC/NCC/RCM  
certified

AIW-173 Series



## Product Highlights

### Qualcomm WCN7851

2x2 2.4/5/6GHz 11b/g/n/a/ac/ax/be WLAN

### Various Form Factor Support

M.2 2230 E-Key / Mini-PCIe / LGA 1620

### Multi-OS Support on x86 & Arm

Windows 11 & Ubuntu 22.04

### Dual Band Simultaneous (DBS)

2.4 GHz + 5GHz or 6GHz

### Industrial-Grade Temperature Range

Operating temperature range: -40~85°C

### Global Certification

FCC/CE/IC/TELEC/NCC/RCM/KCC/ANATEL

BT

GNSS

5G

LoRa

Wi-Fi

## Design-In Services

AIW is revolutionizing IoT development with its Wireless Design-In Services, set to transform wireless connectivity for IoT devices. Through collaborations with strategic partners, testing is sped up and manufacturing is simplified. It comprises four parts: solution assessment, RF and antenna design, system integration, and certification acquisition. AIW is especially impactful in RF design, testing, and certification.



**Leading**  
Industrial Wireless Solution Provider



**Robust RD Capability**  
for Design-In Service



**Strong Partnership**  
for A+ Products & Speed to Market

### Antenna Customization Service

- Requirement assessment, antenna placement evaluation
- Throughput optimization, radiation pattern and isolation testing

### Global Certification Service

- Cost reduction via early assessment and wireless kit selection
- Pre-test and troubleshooting during the certification process



## Use Case

# Gen AI-Enabled Interactive Kiosks

The retail sector is evolving to meet changing consumer preferences and dietary trends, driven by digitalization and automation. Managing inventory and reducing food waste present both challenges and opportunities. Enhancing customer experience through personalized service is essential, while balancing labor costs and efficiency with automation will shape the future of retail.

By seamlessly integrating smart technologies with Gen AI, retailers can enhance efficiency and customer satisfaction while optimizing operational processes.



## Challenges & Market Demands

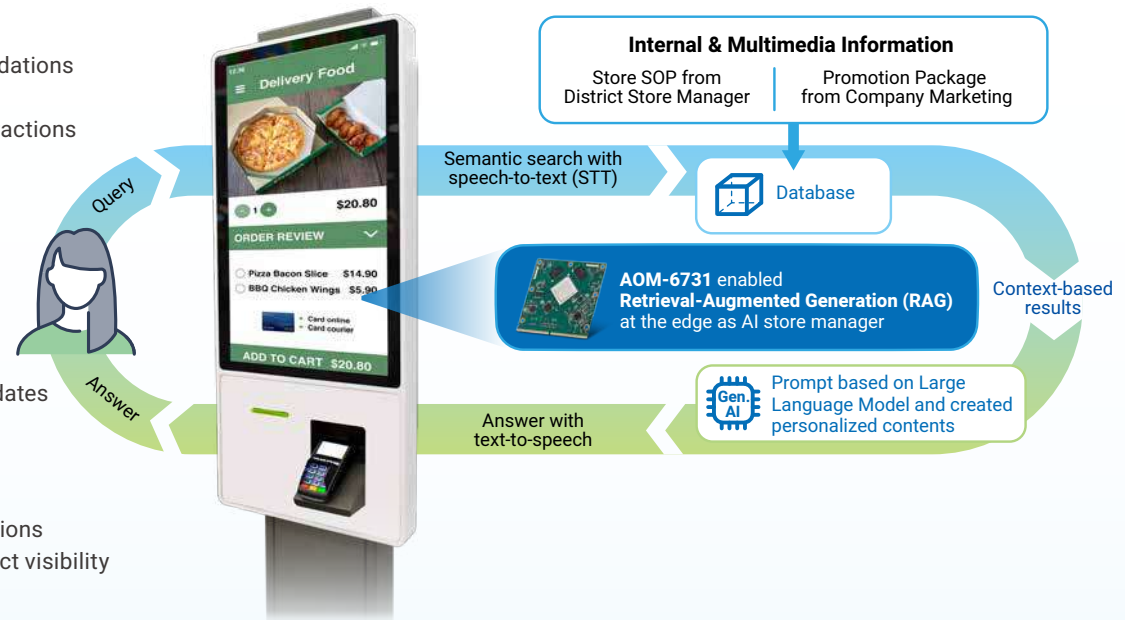
- Real-time Gen AI is required for quick, personalized services and recommendations
- Flexible and scalable systems are needed to support peripheral integration
- Multi-display support is essential for both product showcases and user interactions
- Data security is crucial for online transactions and customer privacy

## Solutions & Technologies

- AOM-6731, powered by Qualcomm Snapdragon X Elite, offers up to 45 TOPS with Windows 11 Copilot, enabling intelligent retail applications.
- High-speed connectivity: 4 × PCIe Gen3.0 x1, 2 × USB 3.2 Gen 2, 4 × USB 2.0
- Multi-display support: eDP (5120 × 2880 @ 60Hz), DP (4096 × 2160 @ 60Hz)
- Long-term Windows support: 10+ years of maintenance & security patch updates

## Key Benefits

- Offline Copilot AI assistant enables quick responses to user needs
- Comprehensive multi-IO support ensures compatibility with diverse applications
- Seamless multi-display support enhances customer engagement and product visibility
- A mature Windows environment facilitates efficient software development



## Use Case

# Robotic Lawn Mowers

Robotic lawnmowers are gaining popularity as they provide time optimization, labor reduction, and automation of repetitive tasks. These battery-powered autonomous machines are equipped with specialized sensors, cameras, and navigation systems to identify mowing areas and avoid obstacles. They offer convenience, precision, and eco-friendliness, enabling autonomous operation and ensuring a consistently well-maintained lawn.



## Challenges & Market Demands

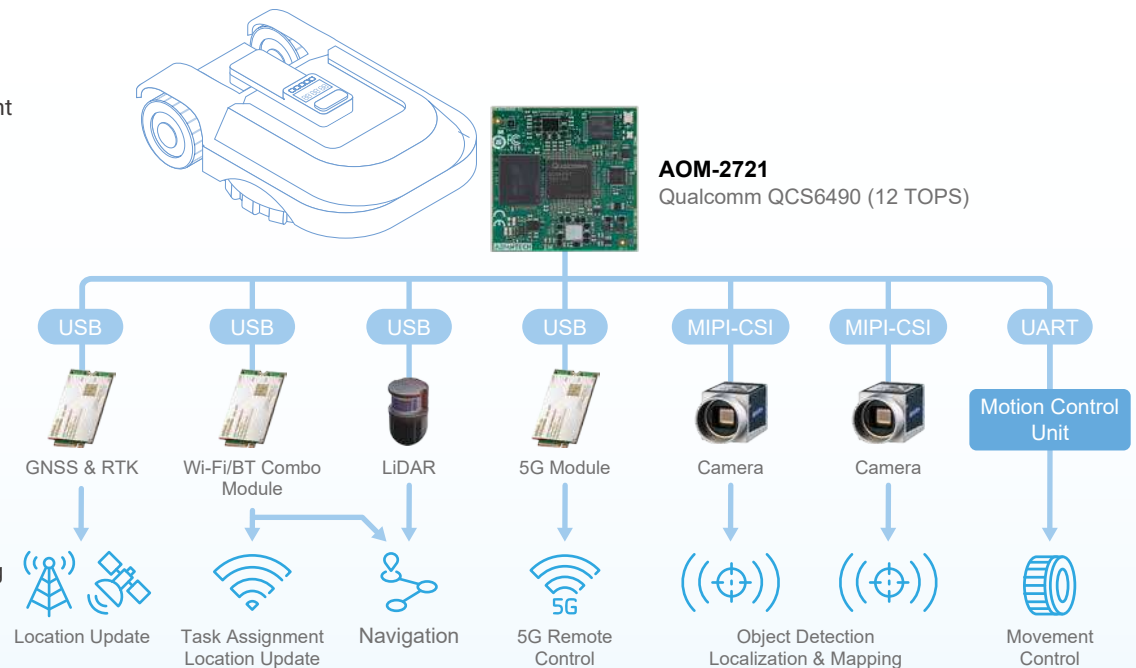
- Lower power requirements for extended battery-powered operation
- On-device AI computing for instant machine vision
- GNSS and 5G connectivity for the low-latency fleet lawnmower management
- High-vibration tolerance for outdoor, ruggedized environments

## Solutions & Technologies

- Solder-on, ultra-thin open standard module
- Powered by Qualcomm QCS6490 (8 cores, up to 2.7 GHz, 6.5 watts)
- On-device machine learning up to 12 TOPS
- Equipped with ISP and VPU for 4K60 video decoding and pre-processing
- Supports Qualcomm GNSS and 5G technologies via optional M.2 modules
- Compatible with Ubuntu OS and Advantech Robotic Suite

## Key Benefits

- High integration from processing, connectivity, to software in a single chip to streamline development efforts
- Optimal performance and efficiency with advanced Edge-AI and computing at lower power
- Space efficiency and enhanced reliability for mobile edge devices



## Use Case

# Surgery Robot Video System

With advancements in wireless technology, real-time video streaming of surgical procedures has become increasingly popular. These streams can be shared with more than four devices, allowing medical teams to stay updated on the latest status and provide instant assistance to surgeons during operations. This technology has become a mainstream solution for surgical training and medical AR/VR applications.

The AIW-170BQ functions as both an access point (AP) and client, enabling stable and reliable wireless connections for critical medical tasks.



## Challenges & Market Demands

- Limited space and budget constraints for dual Wi-Fi module designs
- Antenna design optimization for optimal performance
- Driver integration challenges in Linux on Arm-based systems

## Solutions & Technologies

- 320MHz bandwidth and 6GHz frequency enable ultra-high-speed, low-latency multi-device connections
- Driver integration and firmware optimization provided by the AIW firmware team
- Customized antenna design & performance testing for optimized connectivity

## Key Benefits

- Dual-band, dual-concurrent support with a single AIW-170BQ module
- Reduced wireless development time and cost through streamlined integration
- Low-latency 4K video streaming for multi-client medical applications





Computer On Modules



Model Name	AOM-2721	AOM-5721	AOM-6731	SOM-6820
Form Factor	OSM 1.1 Size-L	SMARC 2.2 Half	SMARC 2.2 Full	COM Express Compact Type6 R3.1
Processor	Dragonwing QCS6490/ QCS5430	Dragonwing QCS6490/ QCS5430	Snapdragon X Elite	Snapdragon X Elite
NPU	Hexagon NPU up to 12 TOPS	Hexagon NPU up to 12 TOPS	Hexagon NPU up to 45 TOPS	Hexagon NPU up to 45 TOPS
Memory	LPDDR5 8GB	Up to 16GB LPDDR5 (on-board)	LPDDR5X 16GB	LPDDR5X up to 64GB
Display	1 x eDP, 1 x DP	1 x 4-Lane MIPI DSI/ HDMI, 1 x eDP, 1 x DP	1 x eDP, 1 x DP	1 x eDP/LVDS, 3 x DP
I/O	2 x GbE, 1 x USB 3.2 Gen1, 2 x PCIe x1, 1 x PCIe x2, 2 x 4-Lane MIPI-CSI	1 x PCIe Gen3 x2, 2 x PCIe Gen 3 x1, 1 x USB 3.2 Gen 1, 2 x GbE	1 x GbE, 2 x USB 3.2 Gen2, 2 x PCIe x1, 1 x PCIe x2, 3 x 4-Lane MIPI-CSI, 1 x 2-Lane MIPI-CSI	Up to 16 lanes PCIe, 4x SATA, 4x USB3, 1x 1GbE
Operating Temp.	-20 ~ 70°C	0 ~ 60°C / -20 ~ 70°C	0 ~ 60°C	0~60°C / -40~85°C
Operating System	Yocto, Windows 11 IoT, Ubuntu Pro, Android	Yocto, Windows 11 IoT, Ubuntu Pro, Android	Windows 11 Pro	Windows 11 Pro
Dimensions	45 x 45 mm	82 x 50 mm	82 x 80 mm	95 x 95mm

Single Board Computers



Model Name	MIO-5355
Form Factor	3.5" SBC
Processor	Dragonwing QCS6490/ QCS5430
Memory & Storage	8GB LPDDR5, 128GB UFS or eMMC
Display	LVDS (*0tp. eDP), HDMI
I/O	2 x GbE, 6 x USB, 4 x COM, 2 x MIPI-CSI, 1 x Combo Audio Jack, 1 x 8-bit GPIO
Expansion	1x M.2 E-Key 2230, 1x M.2 B-Key 2280, 1x M.2 B-Key 3052
Operating Temp.	0 ~ 60°C / -20 ~ 70°C
Operating System	Windows 11 IoT, Ubuntu Pro
Dimensions	146 x 102 mm

Edge AI Systems



Model Name	DS-011	AIR-055
Processor	Dragonwing QCS6490/ QCS5430	Dragonwing IQ9075M
Memory	PDDR5 8GB	LPDDR5 up to 36GB
Display	2 x HDMI	2 x HDMI, 2 x DP, 2 x USB-C with DP ALT mode
I/O	2 x GbE, 2 x USB 3.2, 1 x COM, 1 x Console, 1 x USB-C, 1 x Micro-SD, 1 x Audio Jack, 2 x GMSL (optional)	2 x USB 3.2, 2 x USB-C (DP ALT Support), 2 x USB 2.0, 2 x 2.5 GbE, 3 x COM, 1 x DIO, 2 x CAN, 2 x MIPI CSI USB-C (GMSL Option), 1 x Headphone Combo Jack, 1 x Micro SD
Expansion	1 x M.2 M-Key 2280, 1 x M.2 E-Key 2230, 1 x M.2 B-Key 3042	1 x M.2 M-Key 2280, 1 x M.2 E-Key 2230, 1 x M.2 B-Key 3052
Operating Temp.	0 ~ 40°C	-20~60°C
Operating System	Ubuntu Pro	Yocto
Dimensions	180 x 190 x 23 mm	190 x 174 x 60 mm

Development Kits



**AOM-2721 OSM Development Kit Based on Qualcomm Dragonwing QCS6490**  
[Preloaded with Windows 11 IoT Enterprise & Yocto Linux](#)

- Octa-Core Armv8 processors
- Delivering up to 12 TOPS



**AOM-2721 OSM Development Kit Based on Qualcomm Dragonwing QCS6490**  
[Preloaded with Edge Impulse & Yocto Linux](#)

- Octa-Core Armv8 processors
- Delivering up to 12 TOPS



**AOM-6731 SMARC Development Kit Based on Qualcomm Snapdragon X Elite**  
[Preloaded with Windows 11 IoT Enterprise](#)

- 12x Qualcomm® Oryon™ processors
- Delivering up to 45 TOPS

# 4G LTE CAT6



Model Name	AIW-344			AIW-346	
Part Number	AIW-344FQ-N01	AIW-344FQ-E02	AIW-344FQ-J01	AIW-346FQ-N01	AIW-346FQ-N02
Chipset	Qualcomm MDM9X07	Qualcomm MDM9X07	Qualcomm MDM9X07	Qualcomm MDM9X07	Qualcomm MDM9X07
Radio Technology	LTE Cat.4 + GPS	LTE Cat.4 + GPS	LTE Cat.4 + GPS	LTE Cat.4 + GPS	LTE Cat.4 + GPS
Form Factor	Full-size Mini-PCle	Full-size Mini-PCle	Full-size Mini-PCle	Full-size Mini-PCle	M.2 3052 B-Key
SIM Slot	No	No	No	Yes	Yes
Signal Protocol	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Downlink/Uplink	150Mbps / 50Mbps	150Mbps / 50Mbps	150Mbps / 50Mbps	150Mbps / 50Mbps	150Mbps / 50Mbps
Frequency Band	LTE FDD: Band 2,4,5,12,13,17,66,71 WCDMA: Band 2,4,5	FDD-LTE: Band 1,3,5,7,8,20,28 TDD-LTE: Band 38,40,41 HSPA / UMTS:Band 1,5,8 GSM / GPRS / EDGE850 / 900 / 1800MHz	LTE FDD: band1,3,8,11,18, 19,21,26,28 LTE TDD: Band41 WCDMA/HSPA+: Band1,6,8,19	LTE bands: 2 / 4 / 5 / 12 / 13 / 14 / 66 / 71 WCDMA bands: 2/4/5	LTE bands: 2 / 4 / 5 / 12 / 13 / 14 / 66 / 71 WCDMA bands: 2/4/5
Operating Temperature	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C	-30 ~ 80°C	-30 ~ 80°C
Support Area	-	EU, TW, Australia, Brazil	JP	US	US
Antenna Information	3 x MHF1 connectors	3 x MHF1 connectors	3 x MHF1 connectors	3 x MHF1 connectors	3 x MHF1 connectors
Recommended Antenna	AIW-531	AIW-531	AIW-531	AIW-531	AIW-531



5G NR FR1



Model Name	AIW-356			
Part Number	AIW-356DQ-N01	AIW-356DQ-E01	AIW-356DQ-C01	AIW-356DQ-JK1
Chipset	Qualcomm SDX62	Qualcomm SDX62	Qualcomm SDX62	Qualcomm SDX62
Radio Technology	5G FR1 + GPS	5G FR1 + GPS	5G FR1 + GPS	5G FR1 + GPS
Form Factor	M.2 3052 B-Key	M.2 3052 B-Key	M.2 3052 B-Key	M.2 3052 B-Key
SIM Slot	No	No	No	No
Signal Protocol	USB 3.1	USB 3.1	USB 3.1	USB 3.1
Downlink / Uplink	Max DL peak rate 3.47 Gbps, Max UL peak rate 555 Mbps	Max DL peak rate 3.2 Gbps, Max UL peak rate 555 Mbps	Max DL peak rate 2.4 Gbps, Max UL peak rate 555 Mbps	Max DL peak rate 3.2 Gbps, Max UL peak rate 555 Mbps
Frequency Band	NSA:n2/5/12/25/30/41/66/71/77 SA:n2/5/12/14/25/30/41/48/66/70/71/77 TDD-LTE: Band 41/48/46 (LAA) FDD-LTE: Band 2/4/5/12/13/29/30/66/71	NSA: n1/3/5/7/8/20/28/38/40/77/78 SA:n1/3/5/7/8/20/28/38/40/41/75/76/77/78 TDD-LTE:Band 38/40/41/42/43 FDD-LTE: Band1/3/5/7/8/20/28/32 WCDMA: Band 1/5/8	NSA:n41/78/79 SA:n1/28/41/78/79 TDD-LTE:Band 34/38/39/40/41 FDD-LTE:Band 1/3/5/8 WCDMA: Band 1/8	NSA: n1/3/28/41/77/78/79 SA: n1/3/7/8/28/41/77/78/79 TDD-LTE: Band 39/41/42 FDD-LTE: Band 1/3/5/7/8/18/19/26/28
Operating Temperature	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C
Support Area	-	EU, Brazil	China	JP, South Korea
Antenna Information	4 x MHF4 connectors	4 x MHF4 connectors	4 x MHF4 connectors	4 x MHF4 connectors
Recommended Antenna	AIW-532	AIW-532	AIW-532	AIW-532

## Wi-Fi and Bluetooth Combo



Model Name	AIW-170BQ	AIW-171HQ
Chipset	WCN6856	WCN6856
Wireless Generation	Wi-Fi 6E+BT 5.3	Wi-Fi 6E+BT 5.3
Form Factor	M.2 2230 E-Key	Half-Size Mini-PCle
Interface	Wi-Fi: PCIe BT: USB	Wi-Fi: PCIe BT: USB
Antenna Information	2 x MHF4 connectors	2 x MHF1 connectors
Advanced Security	WPA / WPA2 / WPA3	
Operating Temperature Range	-40 ~ 85°C	
OS Support*	Windows / Linux	Windows / Linux
Maximum Data Rate**	1200Mbps	
Certification	FCC / CE / IC / TELEC / NCC / KC	FCC / CE / IC
Recommended Antenna	AIW-512	

\* Some features are only supported in Windows 11 and Windows 7 is no longer on the ADV support list. Linux support depends on the kernel version.

\*\*Maximum data rate is based on the theoretical value of Wi-Fi technology.

## Antennas



Model Name	AIW-512	AIW-513	AIW-532	AIW-533
Antenna Type	Dipole	Dipole	Dipole	Dipole
Frequency	2.4-2.5GHz, 5.15-5.85GHz 5.925-7.125GHz	2.4-2.5GHz, 5.15-5.85GHz 5.925-7.125GHz	699~960MHz, 1710~2700MHz, 3300~5000MHz, 5150~5850MHz	0.6-6GHz
Antenna Peak Gain	2.87dBi @2.4GHz 3.11dBi @5GHz 3.22dBi @6GHz	2.06dBi @2.4-2.5GHz, 4.16dBi @5.15-5.85GHz, 4.61dBi @6-7.125GHz	1.78dBi @699~960MHz, 3.27dBi @1710~2700MHz, 0.18dBi @3300~5000MHz, 4.02dBi @5150~5850MHz	2dBi @617~960MHz, 2.6dBi @1450~2700MHz, 3.5dBi @3300~5000MHz, 3.7dBi @5150~5850MHz
Length (cm)	11.1 x 1.0	23 x 2.2	13 x 2.5	13.4 x 1.9
Connector	RP-SMA male	RP-SMA male	SMA male	SMA male
IP Level	IP55	IP65	-	-
Operating Temperature	-10 ~ 55°C	-40 ~ 70°C	-25 ~ 70°C	-30 ~ 65°C



Enabling an Intelligent Planet

Est. **1983**

Headquarters: **Taipei, Taiwan**

## INDUSTRIES SERVED

Industry 4.0, Industrial IoT,  
Embedded Computing,  
Medical, Retail, Logistics



**\$10.2B** MARKET  
CAP (USD)  
(March, 2025)



## HONORS & AWARDS

- No.5 in Best Taiwan Global Brands
- No.17 in Top 50 Global Automation Vendors
- No.9 in Top 100 Industrial IoT Companies
- Red Dot Product Design Award
- iF Product Design Award

Interbrand

CONTROL

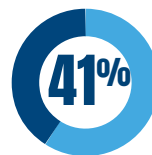


## WORLD'S LARGEST IPC COMPANY

Advantech IPC WW Revenue Share

- Advantech
- Other IPC Companies

Source: OMDIA – Market Share estimates for  
Industrial PCs: World, 2024 Edition



**\$1.87B** 2024  
REVENUE  
(USD)

## KEY ECO-SYSTEM PARTNERS



and more...

## QUALITY SYSTEMS IN PLACE

- ISO9001
- ISO14001
- ISO13485
- ISO17025
- ISO27001
- ISO45001
- TL9000
- ISO50001
- RoHS
- WEEE
- SONY GP
- REACH

**1.8 MILLION+** sq. ft.

## MANUFACTURING PLANTS

Linkou, Taiwan



- 9 SMT lines, 16 system lines
- Engineering sample services
- Complex product lines
- Flexible & quick production

Kunshan, China



- 12 SMT lines, 13 system lines, 6 chassis lines
- Chassis design & production
- Mature product lines
- Cost-effective production



Nogata, Japan

- 4 SMT lines, 1 system line
- Japan design center, CTOS service, logistics center, repair center

## WORLDWIDE OFFICES



- Manufacturing 3
- On-site service 4
- Design centers 11
- CTOS centers 16
- Repair centers 17
- Logistics centers 20

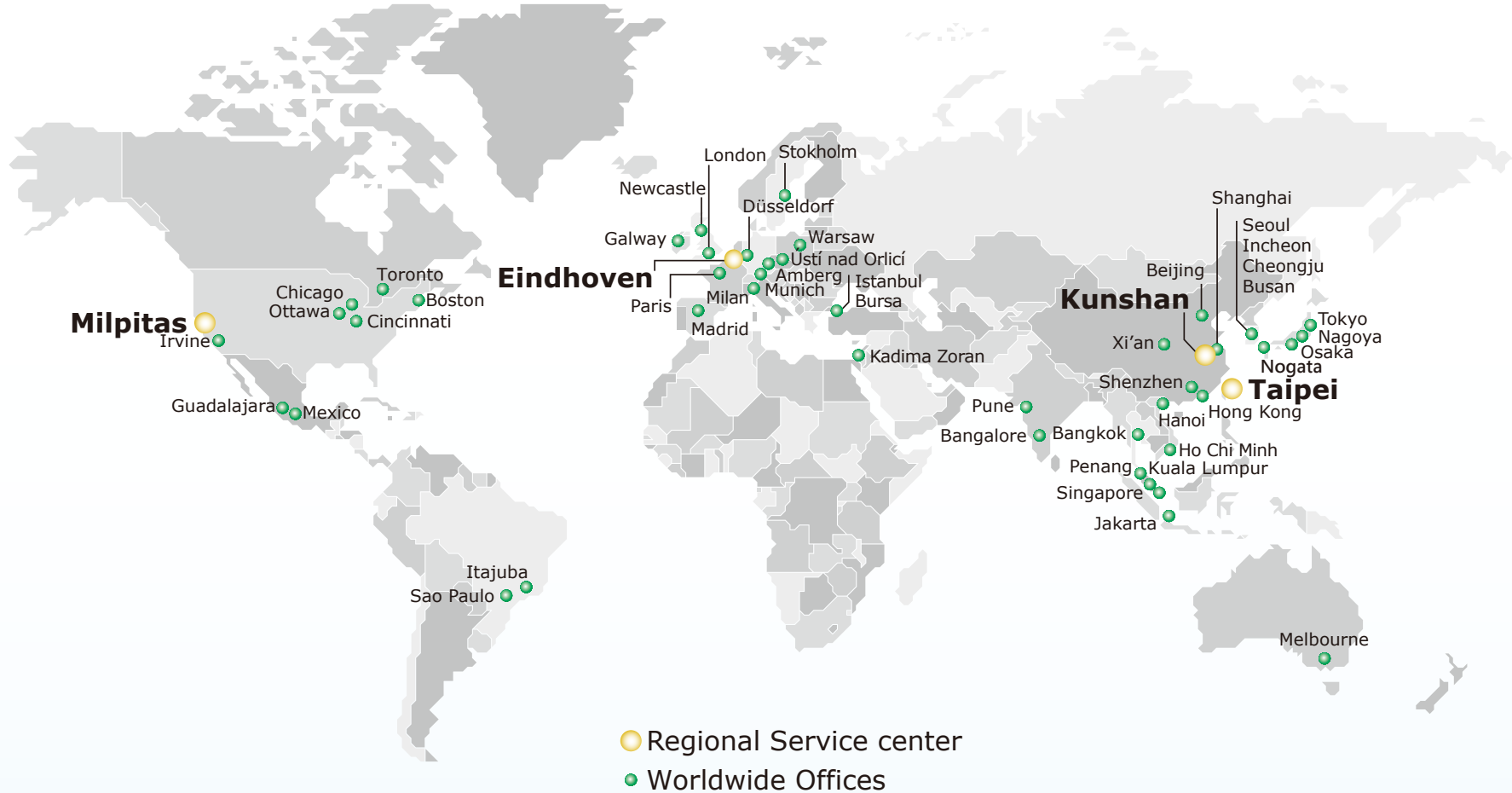
More than 90 offices globally!

**8800+**  
EMPLOYEES





# Advantech Global Offices



Regional Service & Customization Centers

China | Kunshan  
86-512-5777-5666

Taiwan | Taipei  
886-2-7732-3399

Netherlands | Eindhoven  
31-40-267-7000

USA | Milpitas, CA  
1-408-519-3800

Worldwide Offices

Asia Pacific

Taiwan

Toll Free 0800-777-111  
Taipei 886-2-7732-3399  
Taichung 886-4-2372-5058  
Kaohsiung 886-7-392-3600

China

Toll Free 800-810-0345  
Beijing 86-10-6298-4346  
Shanghai 86-21-3632-1616  
Shenzhen 86-755-8212-4222  
Kunshan 86-512-5777-5666  
Hong Kong 852-2720-5118

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Toll Free 0800-500-1055  
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Osaka 81-6-6267-1887  
Nagoya 81-052-291-4860  
Nogata 81-949-22-2890

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Penang 60-4-537-9188

Thailand

Bangkok 66-02-2488306-9

Vietnam

Hanoi 84-24-3399-1155  
Hochiminh 84-28-3836-5856

Indonesia

Jakarta 62-21-751-1939

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Melbourne 61-3-9797-0100

India

Bangalore 1-800-425-5071  
Pune 91-94-2260-2349

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Eindhoven 31-40-267-7000

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Munich 49-89-12599-0  
Düsseldorf 49-2103-97-885-0  
Amberg 49-9621-9732-100

France

Paris 33-1-4119-4666

Italy

Milan 39-02-9544-961

UK

Newcastle 44-0-191-262-4844  
London 44-0-208-317-1380

Spain

Madrid 34-91-668-86-76

Sweden

Stockholm 46-0-864-60-500

Poland

Warsaw 48-22-31-51-100

Czech Republic

Ústí nad Orlicí 420-465-524-421

Ireland

Galway 353-91-792444

Americas

United States

Cincinnati 1-888-576-9668  
Milpitas 1-408-519-3800  
Irvine 1-800-866-6008  
Ottawa 1-800-346-3119  
Chicago 1-513-742-8895  
Boston 1-800-866-6008

Canada

Toronto 1-800-866-6008

Brazil

Toll Free 0800-770-5355  
São Paulo 55-11-5592-5355  
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