

Qualcomm QCS8550 Power : AIX-8000 BRINGS 48 TOPS TO THE EDGE



Tired of bottlenecked data and unreliable cloud connectivity? The AIX-8000 brings flagship AI computing power directly to the operational edge, transforming high-speed video and sensor data into instant, actionable intelligence.

Powered by the Qualcomm[®] Dragonwing[™] QCS8550, the AIX-8000 is engineered for the most demanding Industrial IoT, Autonomous Mobility, and Smart City deployments.

The Target Segment: Industrial IoT (IIoT), Robotics & Smart Infrastructure

Feature	Value Proposition in Market Segment	Primary Use Cases
48 INT8 TOPs Edge AI	Enables concurrent, real-time deep learning analysis on multiple video streams directly on-device, eliminating cloud latency.	Real-Time Video Analytics (VCA, People Counting, Object Detection, Safety Monitoring), Predictive Maintenance.
CAN Bus (x2) & COM Ports (x2)	Seamless integration with factory machinery, industrial sensors, autonomous mobile robots (AMRs), and vehicle systems.	Autonomous Mobile Robots (AMRs), AGVs, Industrial Automation Control.
-20°C to 60°C Operating Temp	Guaranteed reliability in harsh environments (factory floors, outdoor enclosures, transportation hubs).	Smart Surveillance/Traffic Management, Outdoor Kiosks, Cold Storage Logistics.
Dual OS Support (Android 13, Yocto Linux)	Maximum deployment flexibility for both user-friendly application environments (Android) and bare-metal, secure industrial frameworks (Yocto Linux).	Custom HMI/Interactive Kiosks, Embedded AI Gateways.
Dual HDMI 4K@30fps	Drives high-resolution local displays for operator dashboards, digital signage, and quality control interfaces.	Manufacturing Quality Control Systems, Video Collaboration Systems.

See the AIX-8000 in Action

Imagine deploying the AIX-8000 to:

- **Manufacturing:** Run multiple quality control and safety inspection AI models simultaneously on 8K video streams.
- **Logistics:** Manage a fleet of Autonomous Mobile Robots (AMRs) using its CAN Bus, all while performing real-time obstacle avoidance (VCA).
- **Smart Cities:** Power complex traffic analysis at intersections, detecting vehicle types, flow, and pedestrian activity with sub-10ms latency.

Ready to move your AI from the cloud to the edge?

Contact our team today at marketing.amd@sysgration.com to transform your next project with the AIX-8000.