

The Lantronix logo features the word "LANTRONIX" in a bold, sans-serif font. The letters "LANTRON" are white, while "IX" is orange. A registered trademark symbol (®) is positioned to the upper right of the "X".

LANTRONIX®

Accelerating Drone Innovation

With Lantronix Embedded Compute

Design, Build and Deliver Custom Edge Platforms



Enable customers to deliver product in a faster time to market and at reduced development cost



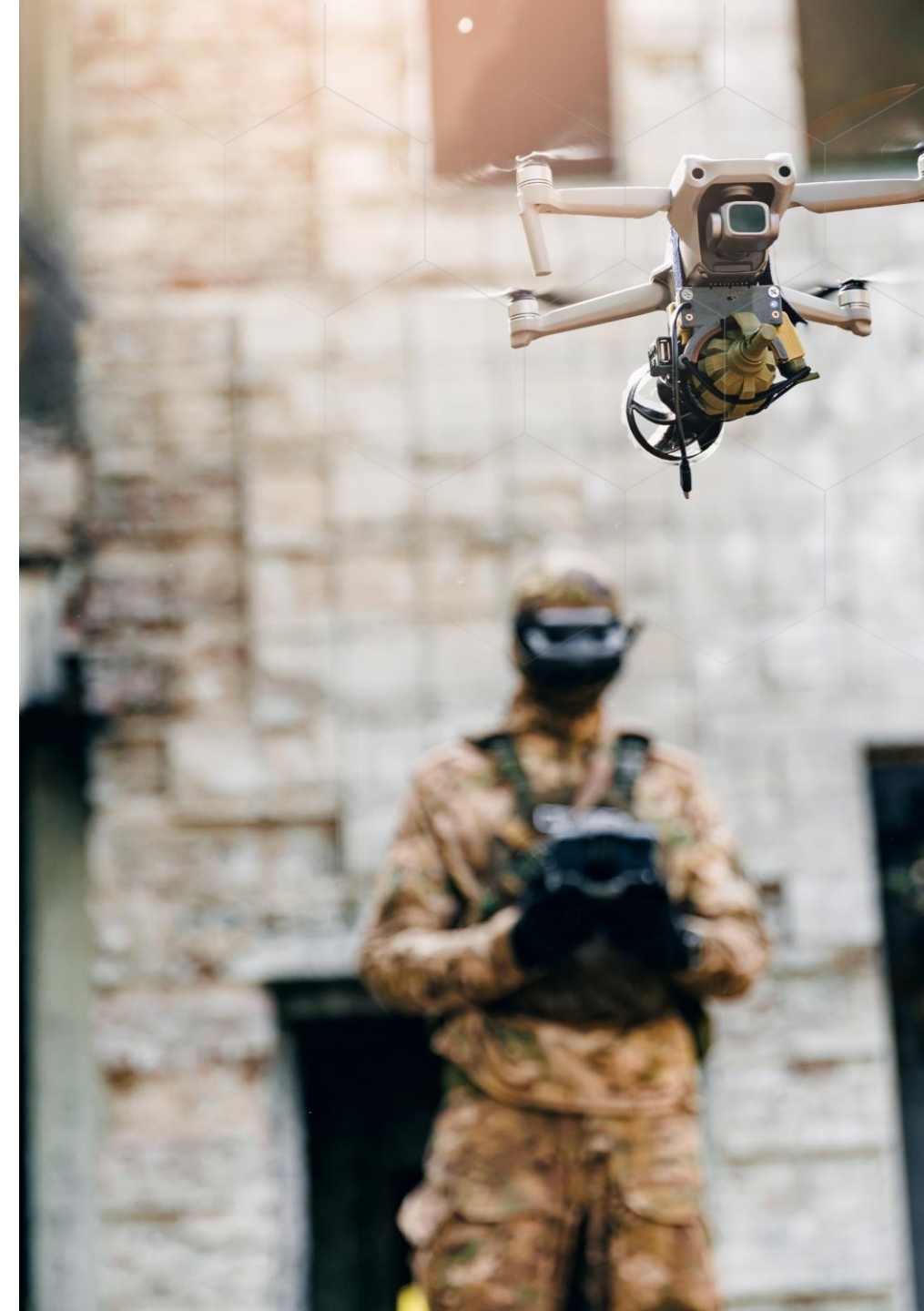
Trusted by leaders in defense, industrial, and enterprise markets



Comprehensive portfolio of solutions & services



Proven expertise in AI/ML, imaging, security, and connectivity



Lantronix Global Presence



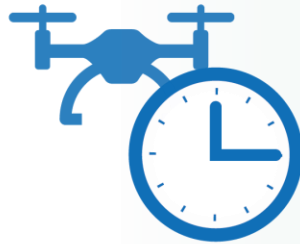
Qualcomm's Edge in Drone Technology

Excelling in Low-SWaP Use Cases

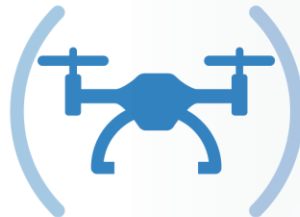
Greater Power Efficiency



Longer Flight Endurance



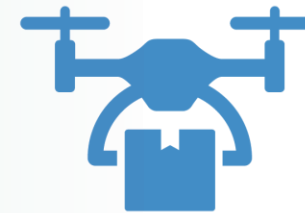
Smaller Form Factor



More Efficient AI Inference



Increased Payload Capacity



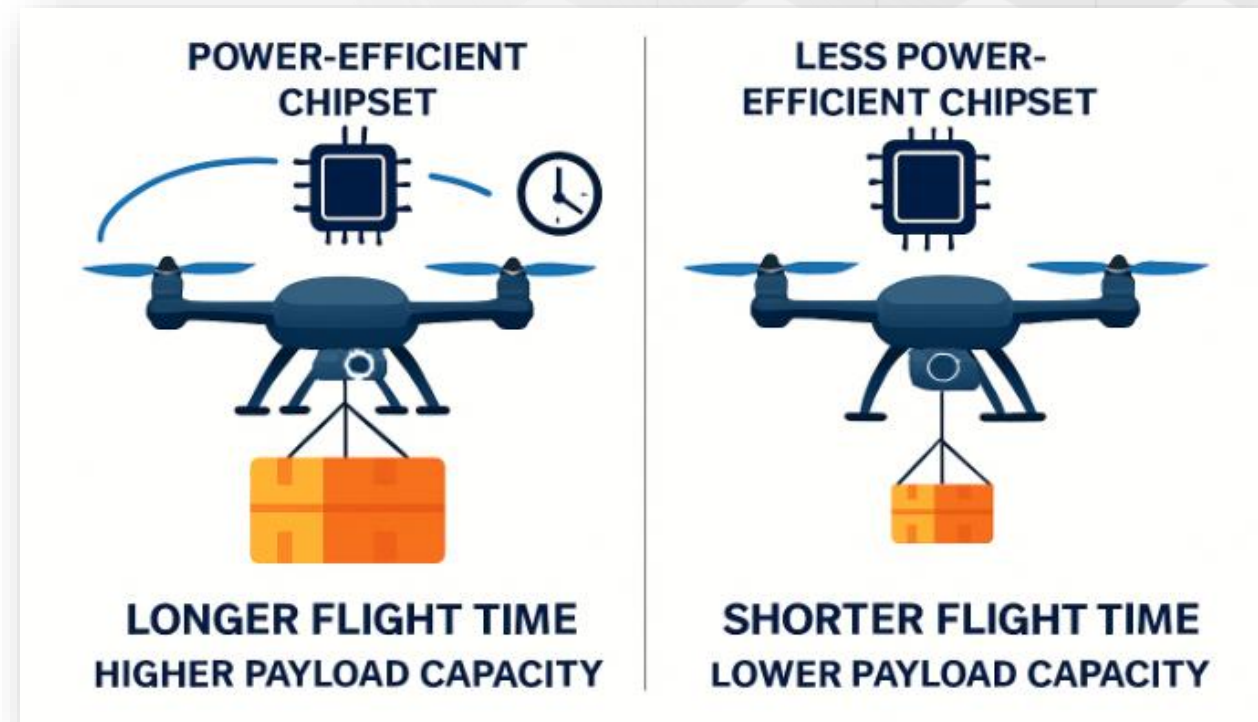
Extended Flight Time: The Qualcomm Advantage

Qualcomm Dragonwing

- ⚡ Lower Power Consumption:
~10W vs. Nvidia Jetson Nano's 25W*
- 📍 Extended Flight Time:
8%-15% longer*

Business Impact

- 📈 Greater Operational Efficiency
- 🌐 Enhanced Capabilities
- 💰 Cost Savings



*Actual performance may vary depending on battery size, payload weight, and motor power draw – Qualcomm 8550.

Trusted US based Qualcomm Partner

From idea to launch – We remove the barriers to building with Qualcomm

Embedded Modules



Design Services



Qualcomm Dragonwing



Qualcomm Advantage Network Member
Qualcomm Authorized Design Center

Turnkey Solutions



Dev Kits



2000+ Projects Delivered | 200+ Engineers | 20+ Qualcomm Modules | 2+ Decades Experience

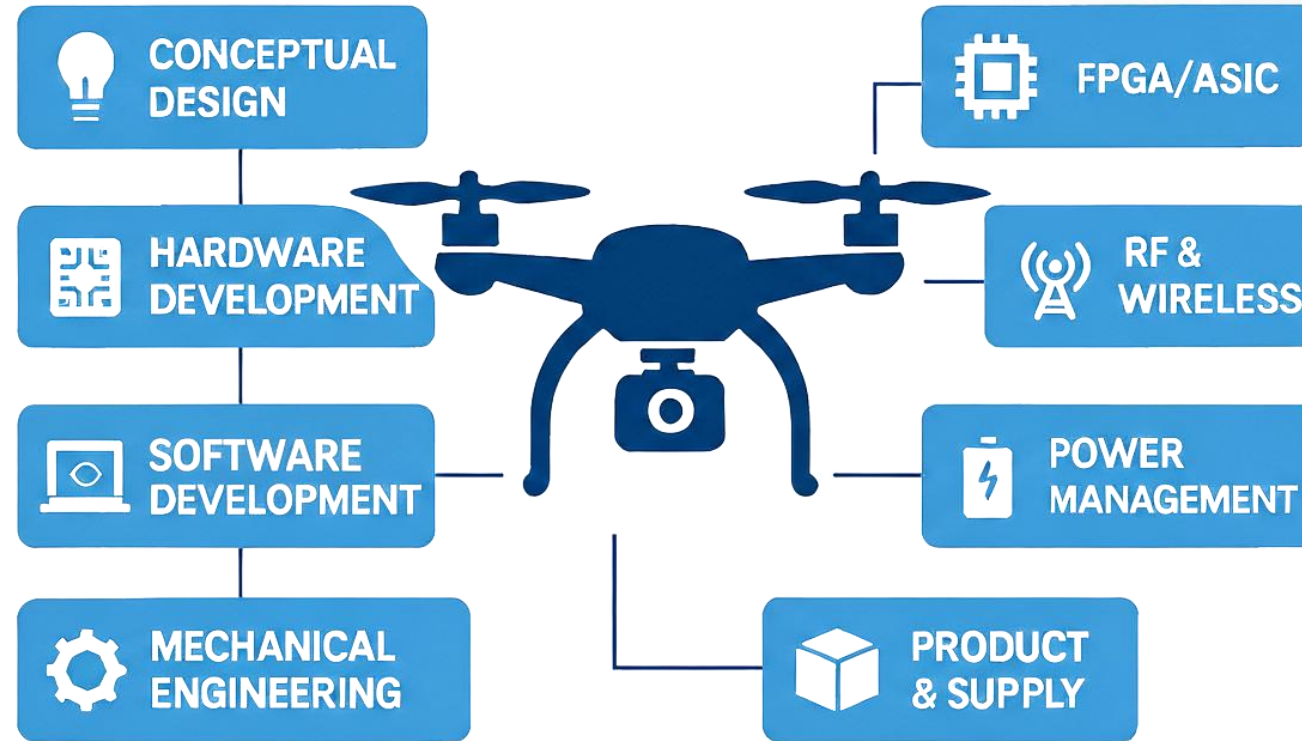
Lantronix Advantage

From Concept to Sky, Faster!

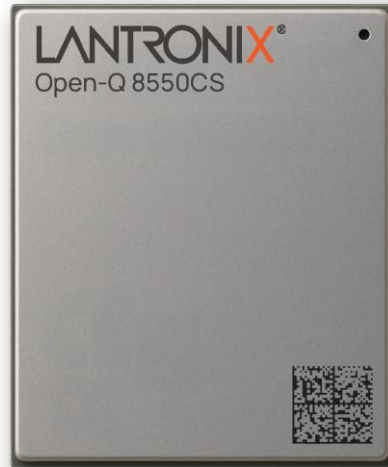
Lantronix Open-Q™ SOMs combine industry-leading engineering services, advanced edge AI, camera integration and multi-sensor fusion, in a compact, power-efficient module, helping you get your autonomous flight systems to market faster.



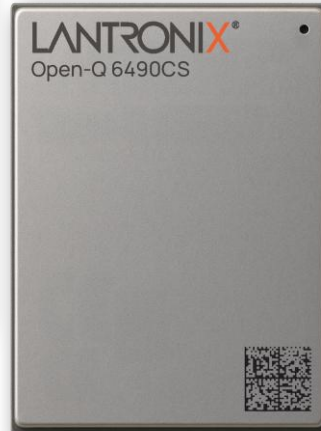
End-to-End Engineering Solutions for UAV Innovation



Purpose-Built SOMs for Drone Devices



Premium Tier
Video Analytics



Industrial Grade
Supporting SAIL



Compact. Powerful. Ready for Commercial Deployments.

How Lantronix is working with drones today



- Edge AI Processing
- Sensor Fusion Engine
- High-Speed Multimedia & Connectivity

Flight Controller



- Secure Boot & Encrypted Comms
- Power-Efficient Flight Computing

UAV Use Cases



Agriculture
Utilities



E-Commerce
Supply Chain



Military
Defense



Public Safety
First Responders

Conclusion & Key Takeaways

Comprehensive Engineering Services



- End-to End support from concept to market-ready product
- Proven expertise in embedded camera design

TAA + NDAA Compliance



- Trusted regulation-compliant drone solution
- Meets U.S. trade and security requirements

Power Efficiency



- Leveraging Qualcomm's advantage in low-SwaP for increased flight times
- Advanced low-power design

Next Steps

Explore
Open-Q Dev Kit

A blue-tinted background image showing a complex circuit board with glowing yellow and green traces.

Engage with
Our Experts

A blue-tinted background image of a woman in a dark shirt standing next to a large computer monitor displaying data charts and graphs.

See the Potential
in Action

A blue-tinted background image of a drone flying over a city skyline at dusk or night.



Thank You!



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Qualcomm Value Propositions

Category	Benefit
Image and Video Processing	<ul style="list-style-type: none">• High-quality capture in low light and HDR• Efficient H.265 encoding reduces storage and bandwidth <p>Why it matters: Clearer evidence/video, longer retention, lower network load</p>
Power Consumption	<ul style="list-style-type: none">• Full AI + video under a low power budget, more efficient than Ambarella/Nvidia• Runs in solar, battery, and fanless enclosures <p>Why it matters: Lower operating costs and dependable 24/7 field deployment</p>
Connectivity	<ul style="list-style-type: none">• High-speed uplinks (Ethernet, Wi-Fi 6, 5G)• Accurate time-synced video across cameras <p>Why it matters: Seamless integration with VMS/NVR systems, reliable chain-of-custody</p>
AI	<ul style="list-style-type: none">• On-device detection of faces, plates, people, vehicles, etc• Sends events instead of raw streams (not sending private data over the network, all done locally) <p>Why it matters: Real-time alerts, reduced cloud costs, supports privacy compliance</p>
Software	<ul style="list-style-type: none">• SDKs, ONVIF tools, OTA updates• Long-term software and hardware roadmap <p>Why it matters: Faster time-to-market, reduced maintenance, predictable lifecycle</p>
Security	<ul style="list-style-type: none">• Secure boot, hardware-based key storage, encrypted video• Meets NDAA/TAA, compliance requirements <p>Why it matters: Protects evidence integrity, passes audits, mitigates legal and regulatory risks</p>

Drone Battery Life Comparison

	Chipset assumption	Battery Capacity (mAh)	Voltage (V)	Power Consumption (W)	Watt Hours (Wh)	Usable Energy 90% (Wh)	Flight Time (hours)	Flight Time (minutes)		
qualcomm worst case with 8550	10W	3850	22.2	115	85.47	76.923	0.668895652	40.13374		
middle case nvidia jetson nano	15W	3850	22.2	125	85.47	76.923	0.615384	36.92304	better flight -8% timeline	
worst case nvidia orin nano	25W	3850	22.2	135	85.47	76.923	0.5698	34.188	-15%	