



## INDUSTRY: Unmanned Aerial Vehicles (UAV) / Drones

### Lantronix Powers Next-Gen Drone OEM Innovation with Edge AI

In collaboration with Teledyne FLIR OEM and Gremsy



#### Success Highlights

- Accelerated drone platform development
- Full NDAA/TAA compliance
- Military-grade performance and reliability
- Scalable across multiple UAV platforms



#### Overview

Lantronix's Open-Q™ 5165RB System on Module (SOM), integrated with Teledyne FLIR OEM's Hadron™ 640R infrared camera modules and Prism™ software as well as Gremsy's advanced camera gimbal stabilizers, enables AI-driven, low-SWaP UAV systems with real-time analytics, improved flight efficiency and rapid sensor and systems integration.

#### Challenge: Fast, Compliant, Secure UAV Design

Drone OEMs need powerful, Edge AI compute platforms that combine AI performance, cybersecurity and NDAA/TAA compliance without slowing development timelines.

#### Solution: Lantronix Open-Q™ SOMs

Lantronix's Open-Q™ 5165RB and 8250CS SOMs, based on the Qualcomm® QRB5165 and QCS8250 processors, respectively, provide production-ready compute platforms for advanced UAV applications.

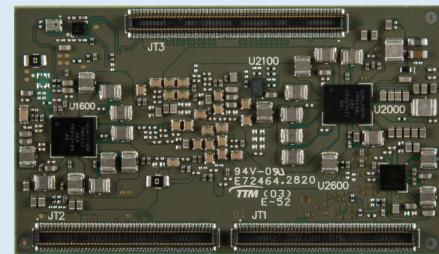
#### Key Advantages:

- **Compliance & Security:** Fully NDAA/TAA compliant
- **AI Acceleration:** Qualcomm® GPU/DSP for edge inference
- **High-Speed Connectivity:** Low-latency data and video links
- **Faster Development:** Mature SOM architecture that reduces design risk

#### Results: Fast, Compliant and Secure UAV Design

Combined with Teledyne FLIR OEM and Gremsy solutions, Lantronix SOMs enable OEMs to achieve:

- Accelerated time-to-market
- Enhanced Edge AI analytics
- Longer and more efficient missions
- Flexible scaling across drone models
- Support from a North America-based partner for regulatory assurance



#### Lantronix Open-Q™ SOM Features

- 15+ TOPS on-device AI
- Multi-camera support
- Wi-Fi 6 and high-speed I/O
- -25°C to +85°C operation
- NDAA/TAA compliant Qualcomm® SoC platform

For more information, visit: [lantronix.com/products-class/open-q-soms/](https://lantronix.com/products-class/open-q-soms/)

#### UAV Advantages

- Longer mission endurance
- Low-SWaP optimized compute
- Scalable integration
- Proven compliance and supply longevity

**“ Together with Lantronix, we’re accelerating development of secure, AI-enabled camera solutions. ”**

– Michael Walters, VP of Product Management, Teledyne FLIR OEM

**“Lantronix is a valued contributor to our next-generation platform.”**

– Nguyen Van Chu, Vice General Director, Gremsy

## Collaboration Ecosystem

### Qualcomm® Technologies

Lantronix SOMs provide the fastest path to Qualcomm® Dragonwing™-based IoT products with production-ready hardware, full development kits and customizable Android™/Linux® software stacks.

### Teledyne FLIR OEM

Integrated Hadron™ 640R and Prism™ software deliver super-resolution imaging, real-time AI detection and synchronized thermal/visible video.

### Gremsy

Gremsy ISR camera payloads - Lynx powered by Lantronix SOMs unlock onboard AI analytics, delivering:

- Lower SWaP for longer endurance
- On-device situational awareness
- Rugged, NDAA-compliant operation



## Typical Applications



Public  
Safety



Drone as First  
Responder



Inspection  
Surveillance

## Market Insight

The global drone market is projected to reach \$163.6B by 2030, driven by demand for secure AI-enabled UAVs across defense, logistics, agriculture and public safety.

## About Lantronix

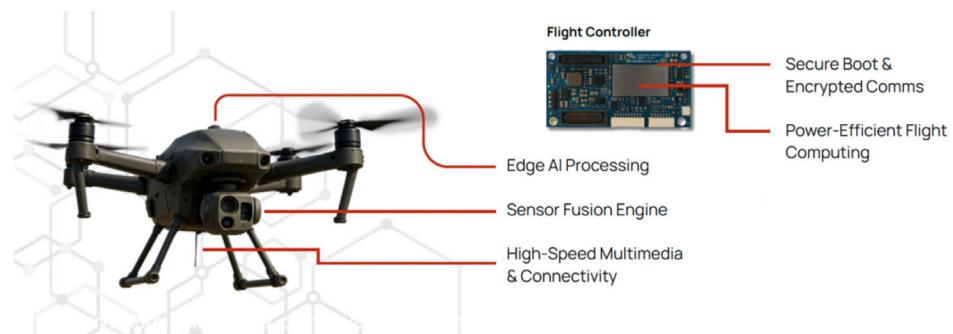
Lantronix Inc. (Nasdaq: LTRX) is a global leader in Edge AI and Industrial IoT solutions, delivering secure compute and connectivity for mission-critical applications. Serving high-growth markets including defense, commercial drones, robotics and smart infrastructure, Lantronix enables OEMs to accelerate innovation, ensure compliance and bring intelligence to the edge.

[lantronix.com](http://lantronix.com)

## About Gremsy

Gremsy is a world-renowned provider of advanced gimbal and camera systems for drones. Their high-quality solutions are designed to meet the demanding needs of professionals in industries such as filmmaking, surveying and public safety. Gremsy's commitment to precision, innovation and ease of use makes them a trusted partner for UAV manufacturers and system integrators across the globe.

[gremsy.us](http://gremsy.us)



**Lantronix. Driving UAV Innovation with Trusted Compute, Sensor and AI Collaborations.**