

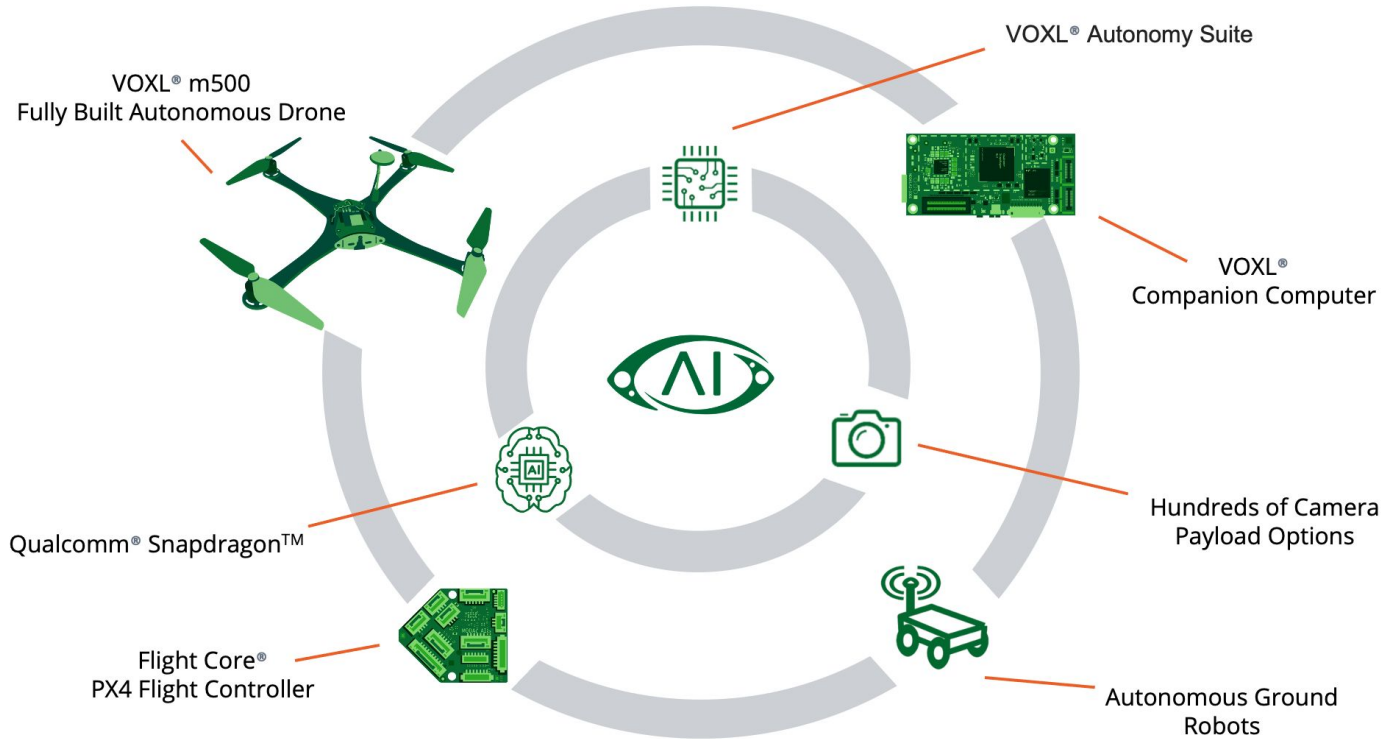
5G Advancing the Next Generation of Open Source Drones



Chad Sweet
CEO and co-founder
ModalAI



Leading Robot and Drone Perception & Communications Systems



Built Around VOXL Flight

Traditional Drones PCBs

Companion Computer

GPS Receiver

Video Transmitter

Camera

Wi-Fi

Flight Controller

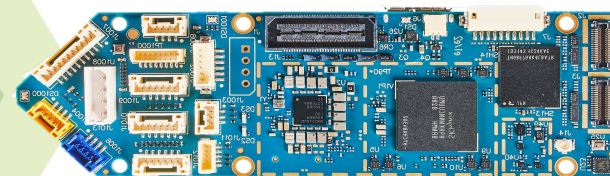


VOXL Flight

SWAP-optimized Blue UAS Framework Autopilot

PX4 Companion Computer with Flight Controller

Open Source Development Capabilities

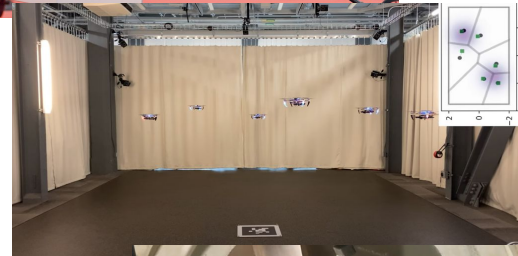


Cellular Network Evolution

5G Will Enable Wide Scale Deployments of Mission-Critical Drone Use Cases

Commercial and industrial drone OEMs that need 5G drones for:

- **Aerial Inspection:** asset / infrastructure, agriculture, hazardous situations, oil refinery
- **Film and Entertainment:** vlogging, movies, photography
- **Mapping:** 3D photogrammetry
- **Delivery:** package, food, equipment
- **Mission Critical:** search and rescue
- **Defense / Military:** field-deployable networks



Qualcomm Flight™ RB5 5G Open Platform



Qualcomm
flight RB5 5G
platform

Pre-Order Now
Deposit \$999.99



Autonomy

PX4, Visual Inertial Odometry (VIO),
BVLOS, GPS-Denied Navigation



Connectivity

5G/LTE, long-range Wi-Fi



Computer Vision

TensorFlow Lite, depth from stereo,
multi-object detection and tracking

Available for Pre-Order at
[ModalAI.com](https://www.ModalAI.com)

PX4 Autonomous Flight Over 5G



5G Modem

```
adb wait-for-device shell
PX4 autopilot
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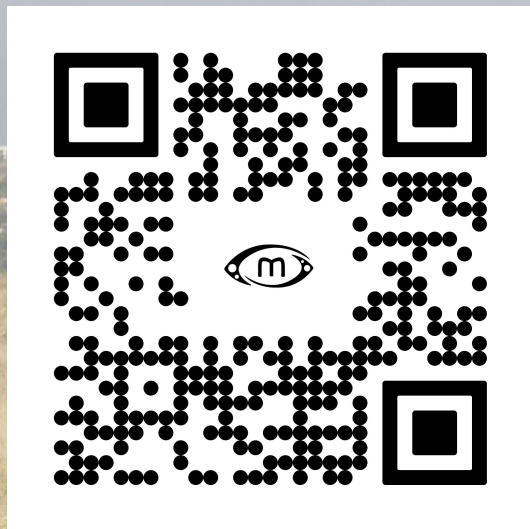
5G Connected over Terminal

Flight with PX4 Over 5G Network



Thank You + Stay in Touch!

Scan the QR Code or visit
modalai.com for more
information about ModalAI



<https://modalai.com>
/px4
/dronecode
/qualcomm-flight-rb5-5g-platform



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