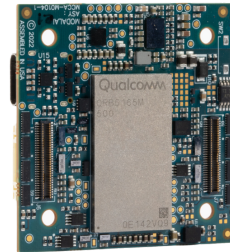


## VOXL® 2 Mini Product Brief

Enable the smallest drones with VOXL 2 Mini. This SWaP-optimized autopilot stack evolves VOXL 2 into an even smaller form factor. Harnessing the Qualcomm Flight RB5 architecture, VOXL 2 Mini combines a premium-tier companion computer and flight controller into a 42mm x 42mm, SWaP-optimized PCB stack that is easy to mount onto any autonomy deficient drone or robot.



### Autonomy

**Smaller, smarter processing power than ever before**

- 42mm x 42mm SWaP-optimized for GPS-denied Navigation, Obstacle Avoidance
- Powered by **Qualcomm QRB5165**: 8 cores up to 3.091GHz, 8GB LPDDR5
- Abundance of perception capabilities including four MIPI image sensor inputs which can include up to five image sensors, including 8K30 and PMD ToF
- **5.8g VOXL Mini ESC** with integrated power management system and high-efficiency, closed-loop RPM control with feedback
- Pre-integrated thermal payloads **FLIR Lepton®** and **Boson®**
- Open-source software: Open CV, ROS2, Docker, PX4 integrated flight controller
- **Integrated flight controller on DSP** with **TDK® ICM-42688 IMU** and **ICP-10111 Barometer**



### Artificial Intelligence

**Innovative AI that accelerates autonomy in any robotic vehicle**

- The QRB5165's **Qualcomm AI Engine** pushes 15 TOPS of AI performance with industry leading power consumption
- Onboard QRB5165: Hexagon Tensor Accelerator, GPU, DSP, NPU
- Perception models such as object segmentation and depth from mono
- NPU and GPU-accelerated TensorFlow Lite



### Interoperability

**Easy to mount autonomy stack**

- SWaP-optimized autonomous autopilot stack with industry standard 30.5mm x 30.5mm frame mounting
- Pre-integrated compatibility with Blue UAS Framework image sensors, radios, and connectors





# VOXL<sup>®</sup> 2 Mini

For full documentation of VOXL 2 Mini, visit:  
[docs.modalai.com/voxl2-mini](https://docs.modalai.com/voxl2-mini)

