

VOXL[®] 2 Feature Matrix

Feature	VOXL 2	Qualcomm [®] Flight [™] RB5 5G Platform	VOXL Flight	VOXL
CPU	QRB5165 8 cores up to 3.091GHz 8GB LPDDR5 128GB Flash	QRB5165 8 cores up to 3.091GHz 8GB LPDDR5 128GB Flash	Snapdragon [®] 821 4 cores up to 2.3GHz 4GB LPDDR4 1866MHz 32GB Flash	Snapdragon [®] 821 4 cores up to 2.3GHz 4GB LPDDR4 1866MHz 32GB Flash
OS	Debian Buster Linux Kernel v4.19	Debian Buster Linux Kernel v4.19	Yocto Linux Kernel v3.18	Yocto Linux Kernel v3.18
GPU	Adreno 650 GPU - 1024 ALU	Adreno 650 GPU - 1024 ALU	Adreno 530 GPU - 256 ALU	Adreno 530 GPU - 256 ALU
NPU	15 TOPS	15 TOPs	No	No
Flight Controller Embedded	Yes (Sensors DSP)	Yes (Sensors DSP)	Yes (STM32F7)	No
Built in WiFi	No	Yes	Yes	Yes
Add-on Connectivity	WiFi, 5G, 4G/LTE, Microhard	5G, 4G/LTE, Microhard	4G/LTE, Microhard	4G/LTE, Microhard
Video Encoding	up to: 8K30 h.264/h.265 108MP still images	up to: 8K30 h.264/h.265 108MP still images	up to: 4K30 h.264/h.265 21MP still images	up to: 4K30 h.264/h.265 21MP still images
Computer Vision Sensors	QTY. 2 Stereo Pair QTY. 1 Tracking	QTY. 2 Stereo Pair QTY. 1 Tracking	QTY. 1 Stereo Pair QTY. 1 Tracking	QTY. 1 Stereo Pair QTY. 1 Tracking
Tracking Sensor	Yes	Yes	Yes	Yes
Dimensions	70mm x 36mm	50 x 84 x 10.9mm	117mm x 36mm	75mm x 36mm
Weight	16g	42.5g	24g	18g
FLIR Boson / Lepton	Yes	Yes	Yes	Yes
VOXL SDK: GPS-denied navigation, SLAM, obstacle avoidance, object recognition	Yes	Yes	Yes	Yes
ROS	ROS 1 & 2	ROS 1 & 2	ROS 1	ROS 1
QGroundControl	Yes	Yes	Yes	Yes
ATAK	Yes	Yes	Yes	Yes
NDAA '20 Section 848 Compliant	Yes, Assembled in USA	Yes, Assembled in USA	Yes, Assembled in USA	Yes, Assembled in USA
PMD TOF	Yes	No	Yes	Yes