VOXL CAM™
Perception Engine

Communications

USB 2.0 Hub (Optional)

LTE (Optional)

Wi-Fi

J3

LTE Bands 2, (3), 5, 12

pDDL

WiFi

USB

J13

VOXL CAM

Perception

A65 Time of Flight Module OR HiRes 4k Image Sensor — MIPI-CSI2 4-Lane — J2

Stereo Sensors — MIPI-CSI2 4-Lane — J3

Tracking/Optic Flow Sensor — MIPI-CSI2 2-Lane — J4

VOXL®

Linux Yocto Jethro (3.18 Kernel)

OpenCV	ROS	Docker

Visual Inertial Odometry (VIO)	Hexagon cDSP (825MHz)
Visual Obstacle Avoidance (VOA)	Hexagon sDSP (700MHz)
MAVlink Routing	Adreno 530 GPU (642MHz)

J12 — UART — J1

Flight Core™

J5

Flight Core (STM32F7) | PX4 Autopilot

J7

J10

J12

J8 — USB

GCS

QGroundControl

ROS / RVIZ

ATAK

Development

Ubuntu

Docker

ADB

Options

FLIR Thermal Camera

10 Micro TOF Modules

IR Camera

Compatible Peripherals

I2C — ModalAIPower Module v2

ModalAI 4in1 ESC

UART/12C — GSP/Mag

UART — Spektrum DSMX