

We make drone development faster, smarter, and more resilient

Our open-architecture NVIDIA-based autopilots and UAS platforms are used by NATO members as well as some of the largest aerospace and defence companies in the world.

Autopilots

From dev kits to all-in-one solutions for copters, fixed-wings, and more





Build drones faster, smarter, more resilient with DroneCore 2

Carrier board with rich connectivity

🌠 Companion computer (Jetson Orin NX)

💟 Modular design for easy customization

Stop spaghetti monsters with an integrated board!







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Default Dev Kit PDB + connectors | <u>See docs</u>





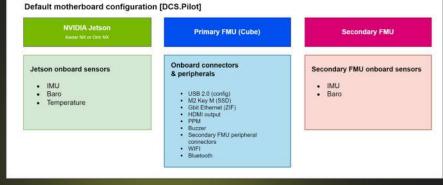
Pro FPV Kit All-in-one FPV kit | <u>See docs</u>

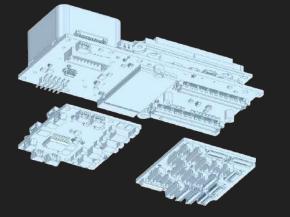
Pilot Board

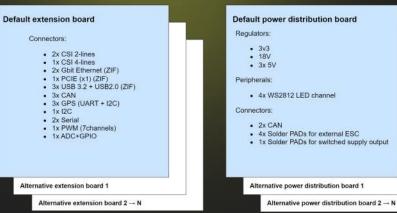
CUBE Orange / Blue / Red and Jetson Orin NX / Orin Nano

Default dev kit (40V architecture)

Exchangeable adapter board and PDB allow to use the Pilot Board with Jetson and Cube for various kinds of airframes and user applications.







Ideal for quadcopters: DroneCore 1 with integrated ESCs

🌠 Carrier board with rich connectivity

Companion computer (Jetson Xavier NX or Orin NX)

Electronic speed controllers (4x FOC-based)



ESCs included

Payload support

Run the most popular payloads on DroneCore out of the box



PAYLOAD SUPPORT FOR DRONECORE AUTOPILOTS





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NextVision Kit (no TRIP) Driver & hardware adapter | <u>See docs</u>





FLIR Hadron Kit Driver & hardware adapter | <u>See docs</u>





Platforms

Stribog UAS Revolution in aerial intelligence

IN 2 SOUTH

Made in the EU Open architecture Multiple payloads Mil-spec radio WiFi & 5G connectivity GNSS-denied mode Used by NATO members

Built for your own mission

Stribog is an extremely powerful quadcopter with up to 40 TOPS of AI computing and open architecture, allowing developers to build their own missions.





Diagonal wheelbase	685 mm
RTF weight without payload / with DragonEye2	4 kg / 4.4 kg
мтоw	6 kg
Flight time without payload	60 min
Temperature range	-20 to 45°C
Max. horizontal speed	17 m/sec
Max. wind resistance	12 m/sec
IP Resistance level	IP43

APPLICATION CAMERA / DragonEye2 /

RGB resolution	1280x720 / 1920x1080	inere state
Zoom	X40 (X20 + X2 digital)	
Field of view	60° WFOV – 3° NFOV – 1.5° DFOV	N/ HE
Thermal resolution	640 x 480	12:1
Yaw / Roll for	-180° to +180°	(4)

OTHER FEATURES

GNSS-denied / absolute radio silence mode	Communication range up to 40 km
Object detection and tracking	Modular payload
Autonomous safe landing / Home function	Mesh radio
Autonomous obstacle avoidance	Lidar 0.2 - 50m range
ATAK / CivTAK compatible	Fits into tactical backpack



SENSING SYSTEM

Forward	Stereo camera 120mm baseline FOV: horizontal 92.76°, vertical 66.89°, 1280x800px
Downward	Mono camera; FOV: horizontal 92.76°, vertical 66.89°, 1280x800px
Global Navigation Satellite System	GPS + Galileo + BeiDou
Lidar	0.2 - 50m range





AUTOPILOT

DroneCore.Suite	DroneCore.Suite 1.2 with NVIDIA Xavier NX 16 GB 512GB M.2 SSD storage
Flight stack	DroneCore.OS, MAVLink-based FMU

COMMUNICATION INTERFACES

Radio remote control

Doodle Labs radio / Silvus radio

Data connectivity

WIFI, LTE modem





AIFPV

Next generation FPV with advanced autonomy



Future-proof FPV with advanced autonomy overcomes weaknesses of classical FPVs

Option to upload a new DNN model Al-assisted target preselection Use of head-tracking for target acquisition Digital zoom Last mile / terminal guidance algorithm High resolution digital camera processing

For inquiries contact info@airvolute.com



We supply UAS solutions to some of the largest defense & aerospace companies in the world.







We are an ISO 9001 certified company.



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