IRONghost™ **Repeater**
Brochure preliminary

Tactical FPV/UAV Drone Control Link

Preliminary, Distribution to Defense Customers

Aug 2024, v1.0

ORQA

IRONghost™ Repeater
Airborne control + video repeater for FPV/UAV Drones
Fully NDAA Compliant

Designed and Manufactured in the EU

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Brochure **preliminary**
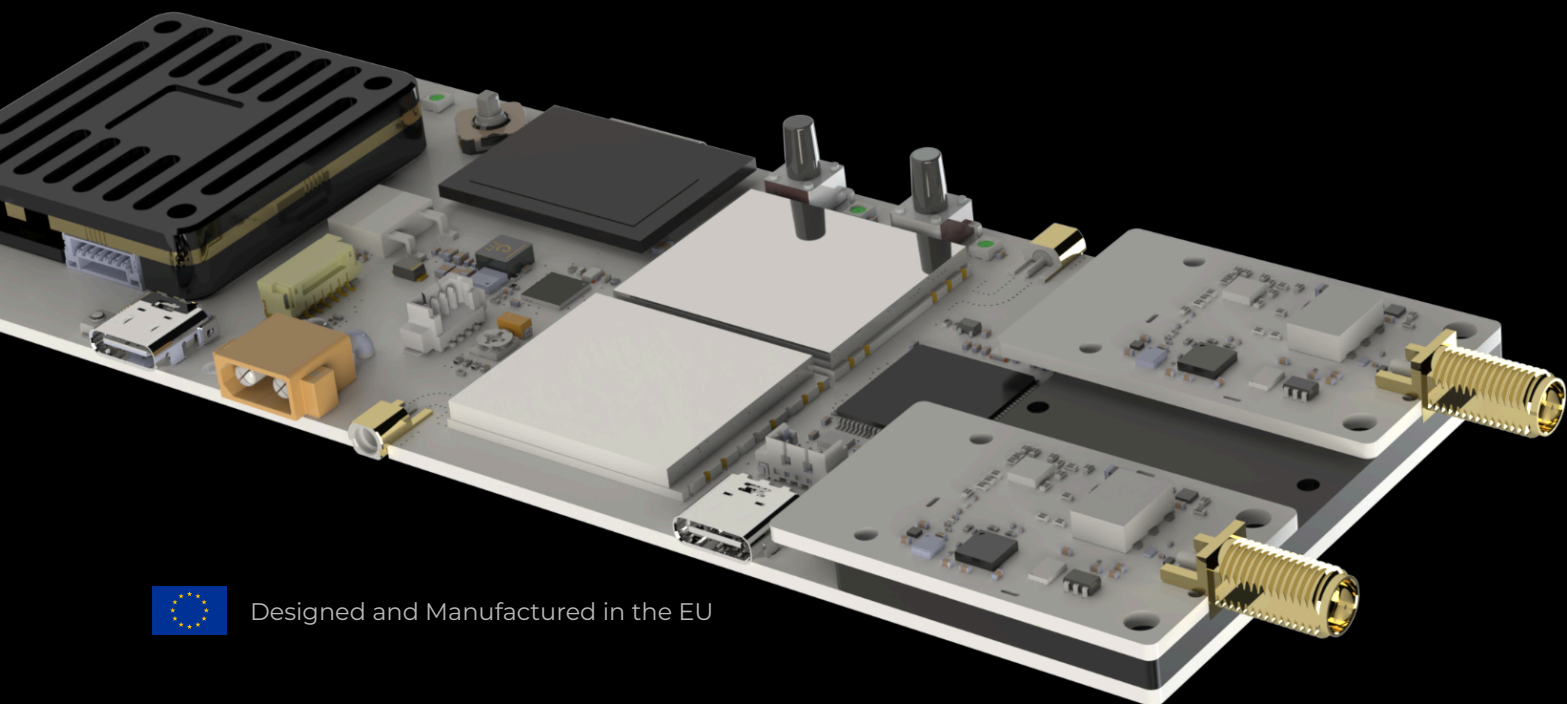
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Specifications

- **IRONghost™ Long Range** control link for enterprise and defense FPV drones
- Designed for airborne use, to dramatically increase range, and penetration of FPV drones
- **AES256** encryption, uplink and downlink [1]
- Fully integrated PCB, shipped with 3d-printed housing, but designed for custom installations of drone/antennas
- **SubGHz** drone <-> repeater link, plus an option of **SubGHz** or **2.4GHz** pilot <-> repeater link
- Flexible configurations, **single**, or **dual SubGHz** control link bands, **100MHz** wide
- EW resilient using combination of **band-switching**, **Chirp-Spread-Spectrum**, and **FHSS**
- Sized to fit commonly used repeater drones, including the DJI Matrice family
- Flexible **2s-6s** power from the carrier drone, or an external LiPo/Liion battery, via a standard **XT-30** connector
- Compatible with all **IRONghost™ DualSubGHz,** and **Quattro** radios
- Automatic internal antenna **VSWR** measurement, with protection against defective/absent antennas
- Control, binding, frequency selection, from ground-based **Tac.Ctrl**
- Max. power requirements, w/3W SubGHz drone link: **8W**

[1] Q4 2024

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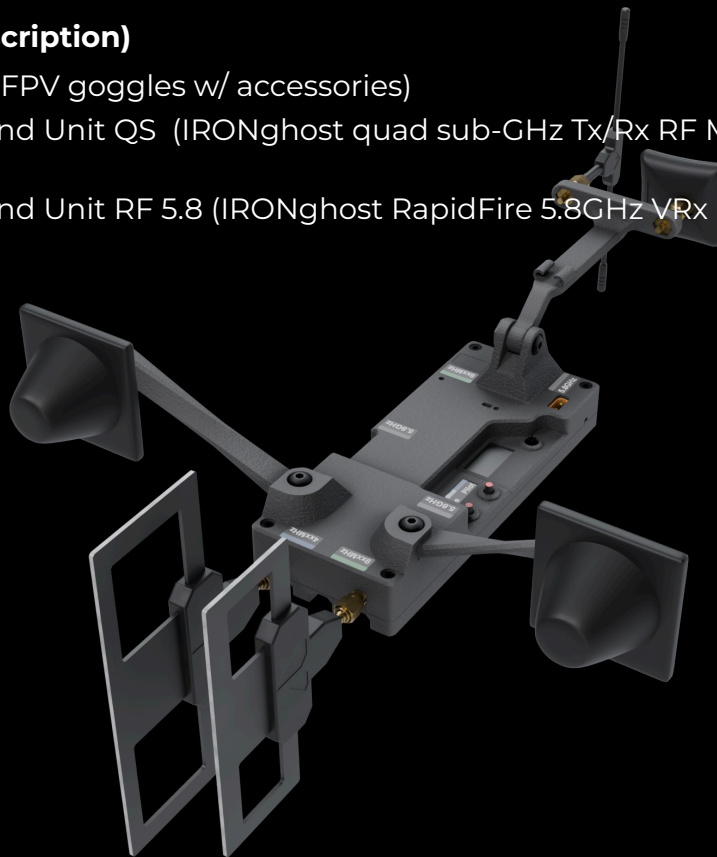**Preliminary, Distribution to Defense Customers**
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Ordering

SKU	Model Name (Description)
6187	IRONghost Repeater (control link, and video link repeater, primarily for airborne use)
6144	GCS-1 (tactical ground control system, w/ FPV.Pro, Tac.Ctrl v.1.0, IRONghost Ground Unit QS+RF, and accessories)

Compatible Products and Accessories

SKU	Item Name (Description)
6121	FPV.Pro (tactical FPV goggles w/ accessories)
6137	IRONghost Ground Unit QS (IRONghost quad sub-GHz Tx/Rx RF Module w/ accessories)
6138	IRONghost Ground Unit RF 5.8 (IRONghost RapidFire 5.8GHz VRx RF Module w/ accessories)

*Example mounting kit

Kit Form

Recognising that most repeater deployments use custom antennas, and host configurations, Orqa can provide custom integrations on the new drones or fixed platforms and mounts.

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