

IRONghost™ Antennas

Brochure preliminary



ORQA

Tactical FPV/UAV Drone Control Link

Distribution to Enterprise/Defense Clients Only

Dec 2023



IRONghost™ Antennas

Antennas for ground, and airborne use, for FPV/UAV Drones.

Fully NDAA Compliant



Designed and Manufactured in the EU

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Antenna Types

spiroNET™ Omni

ImmersionRC's wide-band spiroNET, for 5.8GHz video transmission use

spiroNET™ megaQT

Classic dipole with integrated balun for sub-GHz control use

spiroNET™ Moxon

IRONghost control link transmitters, and video receivers

spiroNET™ Mono

Monopole suited for airborne control link applications, on FPV/UAV drones with larger carbon fiber surfaces



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5.8GHz Antennas

Product

Description



Classic **5.8GHz** antenna for primarily Tx use. Innovative broadband 'cloverleaf' design, also with great performance at the upper, and lower extremes of the 5.8GHz band (including > **6.0GHz**)



High-gain 5.8GHz antenna for Rx use, the TrueRC Sniper. **13.5dBi** gain, with easy **20km+** range

45 degree beam width (H+V)
Circular polarization (RHCP)
Includes 45 degree SMA adapter



SpiroNET **8dBi Patch** antenna. **2x Range** when compared to a standard whip antenna, but a beam angle that is more forgiving for antenna aiming

Well suited for airborne repeater downlink applications

90 degree beam width (H+V), >35dB F/B Ratio
Circular polarization (RHCP)



SpiroNET **13dBi Patch** antenna. **4x Range** when compared to a standard whip antenna.

Focussed beam, which requires antenna aiming, but a range that makes it worth it.

Well suited for tripod-mounted ground units, aimed in the direction of flight.

VSWR < **1.5:1** for 5450 - 5917MHz
VSWR < **2.5:1** for 5350 - 6000MHz
35 degree beam width (H+V), >35dB F/B Ratio
Circular polarization (RHCP)



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SubGHz Antennas

Antennas for reliable long-range control of FPV/UAV drones.

Ranges of **> 20km** available with classic dipoles, with double this figure available using the Moxon.

Datasheet

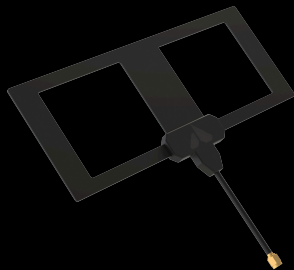


Description

Classic 'T' dipole, with integrated balun.

Designed for ground use, but also usable for air use.

Available in **915MHz** and **433MHz** variants, and any other frequency from **400MHz->1GHz** upon special request.



Orqa's take on the classic Moxon antenna.

~5dBi gain in the direction the antenna is pointed.

Vertical/Horizontal polarization.

Available in **915MHz** and **433MHz** variants, and any other frequency from **400MHz->1GHz** upon special request.

TBD

sub-GHz monopole suitable for use on larger drones ($\geq 10''$) with a large carbon-fiber ground plane.



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Ordering

| SKU | Description |
|-------|--|
| 13796 | MOXON 433MHz w/ RPSMA Male, straight, 85mm cable |
| 13800 | MOXON 490MHz w/ RPSMA Male, straight, 85mm cable |
| 13797 | MOXON 915MHz w/ RPSMA Male, straight, 85mm cable |
| 13798 | megaQT 433MHz w/ RPSMA Male, straight, 160mm cable |
| 13801 | megaQT 490MHz w/ RPSMA Male, straight, 160mm cable |
| 13799 | megaQT 915MHz w/ RPSMA Male, straight, 110mm cable |
| 11850 | spiroNET 5.8GHz vTx, w/SMA Male, straight, 64mm |
| TBD | spiroNET 5.8GHz vTx, w/SMA Male, straight, 140mm cable |



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