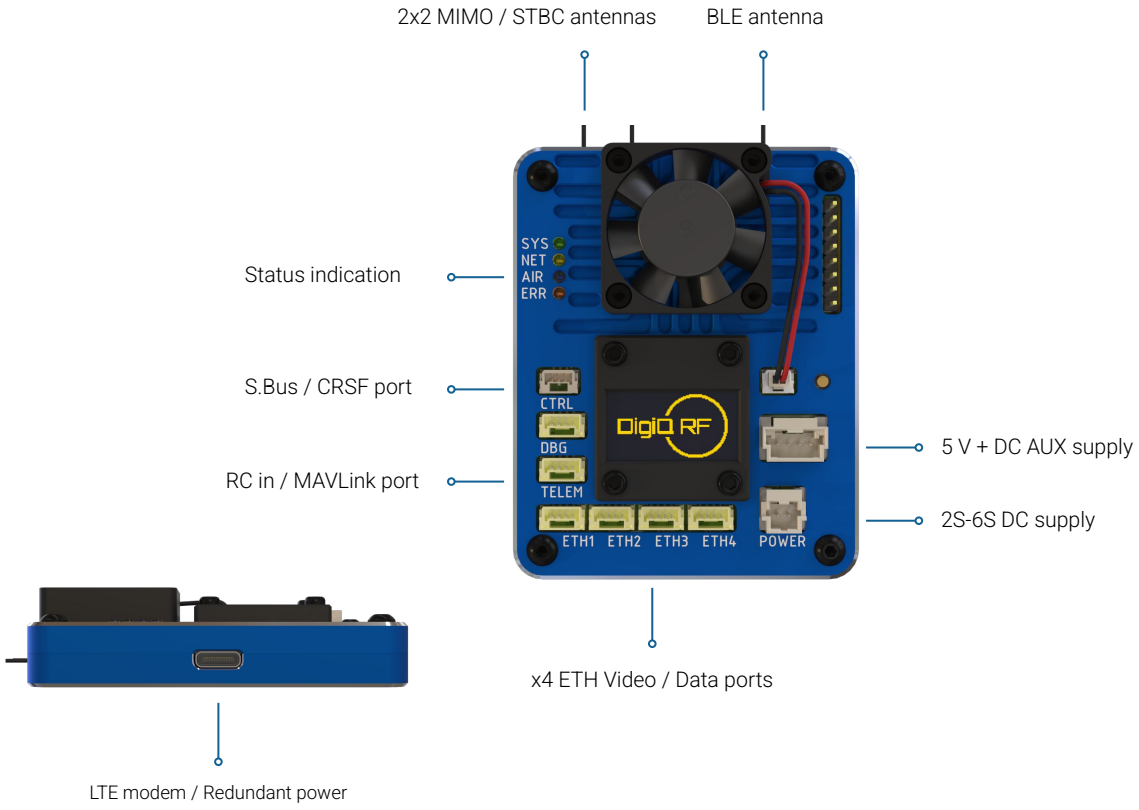
Sky Pulse v3 - Data brief

DigiQ RF

Sky Pulse is a low-latency, high-performance digital communication system for unmanned aerial / ground vehicles. It incorporates video, telemetry, and control data stream transmissions and is suitable for small- and large-segment multicopter and wing drones. The combination of proprietary hardware and software solutions makes it tolerant of substantial radio-electronic interference and opens the door to the most challenging missions. Depending on the target applications, Sky Pulse is supplied in civil or industrial hardware revisions.



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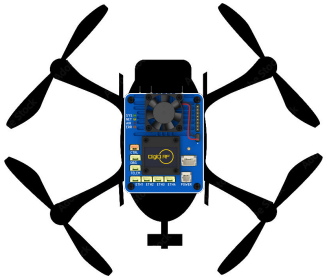
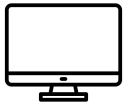


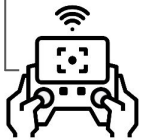
Air Unit

30 km @ 20 MHz*
70 km @ 5 MHz

QGroundControl
/
Mission Planner



Ground Unit



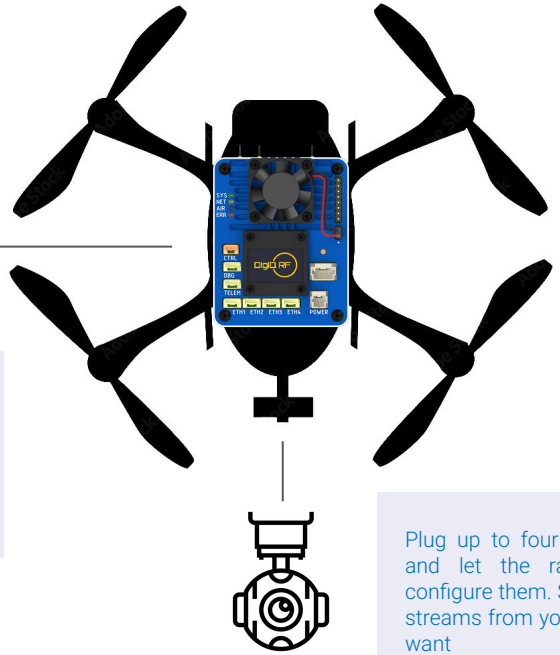
RC Input

- Compatible with all flight controllers
- Unified form-factor for the Air Unit and Ground Station
- Camera Plug-n-Fly feature - no configuration required
- Wireless bridge for extended range setups
- Custom data streams for your hardware
- Redundant USB power supply source for the flight controller or external LTE modem
- Additional AUX power port for your hardware
- Manual stream switching functionality

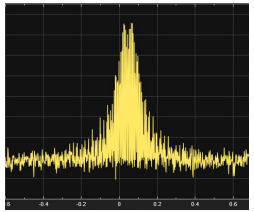
Bandwidth	5, 10, 20 MHz
Radio chains	2x2 MIMO / STBC
Operating frequencies	5050 - 5180 MHz (extended) 5180 - 5825 MHz 5900 - 6100 MHz (extended)
Jamming response	Detection + avoidance (adaptive FHSS)
Video	Up to 8 switchable Full HD streams @ 4 ETH ports
Control	- CRSF @115200/400000 - S.Bus @100000/200000 - CRSF to S.Bus conversion
Telemetry	MAVLink @ 9600/57600/115200
Power range	- 2-6S from the box - Up to 14S with DigiQ Power Converter
Remote configuration	Bluetooth, Web UI
Additional features	External LTE modem, Frequency Shifter, Wireless bridge, AUX DC power conversion, redundant power for the Flight Controller

*With 25 dBi directed antennas + antenna tracker used

Connect the TELEM port for the FC telemetry streaming and use the CTRL port for the guidance (CRSF/S.Bus)



Contactless configuration is useful when installed and secured inside the drone. Use our Android application for the fine tuning and status monitoring



Sky Pulse also introduces built-in spectrum analyzer for the enhanced interference detection and performs auto channel switching to improve the radio link quality

Plug up to four RTSP cameras in and let the radio automatically configure them. Switch between the streams from your RC any time you want

If low-resolution stream is available, the radio will automatically switch to it in case of the severe packet loss

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