Agile Frequency Converter

Rantelon

SiCo-7585



Electronic warfare bypass for resilient drone communication and video links

20 km+ Operational Range
Extended signal conversion for long-range missions.

Anti-Jamming Architecture
Bypasses EW zones by shifting operating frequencies.

Ultra-Lightweight Module
Drone module weighs only 60 g for zero flight impact.

Battle-Proven Technology
Mission-tested for reconnaissance and strike drones.

Robust Tactical Build
Engineered for high-reliability use in contested zones.

Cost-Effective Fleet Upgrade
Enhances standard drone hardware to professional EW-resistant grade.

The SiCo-7585 is a state-of-the-art frequency microconverter designed to secure drone communication links against advanced Electronic Warfare (EW).

By shifting drone signals to customizable frequency bands, it renders standard enemy jamming systems ineffective. The system ensures that reconnaissance and strike missions can proceed through contested airspace where conventional drones would lose all connectivity. It is a vital tool for operators requiring high-reliability links and low detection signatures.

- **Stealth & Resiliency**
  Protects drone control and video telemetry from detection and jamming by converting standard signals to unconventional frequency bands.
- **Cost-Effective Capability**
  Allows for the continued use of standard, lower-cost drone hardware while providing elite-level electronic counter-countermeasures (ECCM).
- **Seamless System Integration**
  Designed for rapid installation on existing FPV and tactical platforms; consists of a directional ground station and a compact aerial module.
- **Universal Plug-and-Play**
  A hardware-based solution that works instantly with standard analog and digital links. No software setup or specialized firmware required.

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PARAMETER	SPECIFICATION
Drone Module Dimensions	W 65 × H 70 × D 27 mm
Drone Module Weight	60 g module + 45 g antenna
Ground Station Dimensions	W 128 × H 153 × D 46.2 mm
Ground Station Weight	233 g
Operational Range	Over 20 km, line of sight required
Frequency Shift	Customizable frequency architecture tailored to mission requirements
Transmitter Output Power	2 W
Operating Temperature	-20°C to +50°C
Supply Voltage	9–32 VDC, XT60 connector

06.2026