

Viewing the World from the Clouds Taitien Electronics Takes UAV Vision to New Heights

Description

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TAITIEN
Our Performance, Your Reputation
COMPONENT DISTRIBUTORS, INC.
RF & MICROWAVE

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As a leader in frequency component technology, **Taitien Electronics** has always been at the forefront of technological advancement. Our latest products elevate the image quality and flight stability of unmanned aerial vehicles (UAVs) to ne heights, setting a new milestone for the UAV industry.

In recent years, the UAV market has experienced remarkable growth. From consumer entertainment to business and scientific research, the demands for image quality and flight stability have been increasing. Taitien Electronicsâ€™ advanced crystal oscillators provide precise timing solutions for various UAV functions such as wireless communication, microprocessing, Bluetooth/Wi-Fi, time capture, camera, sensors, and navigation.

In most outdoor application scenarios, GPS and wireless transmission from the UAV to the ground are particularly impor because accurate time and signal are needed to calculate longitude and latitude. Taitien Electronicsâ€™ temperature-compensated crystal oscillators (TCXOs) meet these requirements and comply with environmental conditions across various working scenarios.

For high-end UAVs that rely on the Global Navigation Satellite System (GNSS), our **Oven Controlled Crystal Oscillato (OCXOs)** are the optimal choice. They provide stable and accurate signals, low noise floor, low phase noise, and high-frequency stability.

During the takeoff, cruising, and landing processes of UAVs, operational stability, navigation, and communication must b maintained even when faced with severe turbulence and adverse conditions. **Taitien Electronicsâ€™ full range of cry oscillators** can deliver stable operation, precise navigation, and certain communication even under extreme temperatur ranges and severe vibration, demonstrating its high flexibility and superior performance.

Features

- Designed for Harsh Environments: Up to -40Â°C to +125Â°C
- Ultra Low G-Sensitivity : 0.1 ppb/g
- Excellent hold over stability: <10-12 in frequency
- Low phase noise: -163 dBc/Hz @ 1 KHz
- 24 Hours Holdover < Â±1.5 us
- 1PPS GPS Disciplined < 30 ns

Applications

- Automated flight control
- Flight management and health monitoring
- Network control
- High-speed data transmission

Category

1. Ewave
2. RF-Microwave
3. Taitien

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