

自组网图传电台 Mesh Video Radio



TC/DL-10W2C



TC/DL-4W2C

TC/DL系列自组网图传电台具有高带宽、远距离、时延小、抗干扰、易操作等特点，既可安装在不同型号的无人机、机器人等无人平台上作为图传终端，又可置于机动车内或固定支架上作为控制站部署使用，同时具有自组网功能，支持非视距应用时的中继传输能力。

The TC/DL series Mesh Video Radio features high bandwidth, long transmission distance, low latency, anti-interference capability, and user-friendly operation. It can be installed as a video transmission terminal on various unmanned platforms (such as UAVs and robots), or deployed as a control station in vehicles or on fixed brackets.

Additionally, it has an Ad Hoc networking function and supports relay transmission for non-line-of-sight (NLOS) applications.

产品主要亮点 Key Features

- **高性能：支持对无人平台的远距离实时控制、实时视频传输与高效协同。** High Performance – Long-range real-time control, video streaming, and efficient collaboration for unmanned platforms.
- **快速组网：最大支持256节点，64节点组网时间小于1分钟。** Rapid Network Formation – Supports up to 256 nodes; establishes a 64-node network in under 1 minute.
- **高机动性：适用于高机动平台，支持最高超过3马赫的高速移动。** High Mobility – Supports high-maneuverability platforms with speeds exceeding Mach 3.
- **抗干扰：智能选频自动规避干扰频点；多跳级联编码+高速跳频，抗50%阻塞干扰。** Anti-Interference – Intelligently detects and avoids interfering frequencies. Multi-hop cascaded coding with high-speed frequency hopping resists up to 50% blocking interference.

性能参数 Performance Specifications

信道模式 Channel Mode: 2×2 MIMO / Diversity, TDD Duplex

频率范围 Frequency Range: 1350 – 1450 MHz (customizable)

工作带宽 Bandwidth: 1.25 / 2.5 / 5 / 10 / 20 MHz (30/40 Mbps optional)

调制方式 Modulation: QPSK / 16QAM / 64QAM / 256QAM (adaptive)

传输速率 Throughput: 25+ Mbps @ 10 MHz, 50+ Mbps @ 20 MHz

通信体制 Waveform: COFDM, STDMA

通信距离 Range: 200+ km (LOS, 2×10W)

传输时延 Latency: 7 ms

组网能力 Networking: Relay, up to 256 nodes

抗干扰 Anti-Interference: FCS, FH

移动速度 Supported Speed: ≥ 1000 km/h

信道加密 Channel Encryption DES, AES-128/AES-256, SM4

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