

# **Airborne Technologies**

## **MICRO INT SERIES**

Mini Transcriver Lightweight reliable communications

Widely used in Airborne Law Enforcement (ALE), military surveillance and border control since years, they are actually the best lightweight choice for the unmanned Aerial Vehicles (UAV) field as well as broadcasting for Electronic News Gathering (ENG)

The Microint family identifies the state of art for fix and mobile surveillance applications due to the extreme compactness and versatility

The wide range of directional antennas, along with optional features (such as the diversity system for the RX antennas), ensures maximum flexibility and operational range up to 50Km LoS

A wide range of antennas to fulfill any need in term of distances, is the natural completion of this entrustable product line

#### Main Sub-asseblies:

- D-ATKS MICROINT single antenna full duplex transcriver
- D-ATKS MICROINT diversity antenna full duplex transcriver
- D-ATKS MICROINT Mpeg4 H264 IP encoder
- Omni, Patch, Fix and Autotracking dish antenna





Single antenna version

Diversity antenna version





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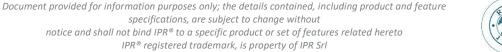
Tracking dish antenna

Fix dish antenna

### Reliable personalized solutions

All critical technologies' parts are developed produced and integrated by IPR providing an outmost degree of customization: systems can be tailored to end users' specific layout and weight requirements







## **Technical Features**

### **Full Duplex Transcriver**

Size L x W x H: Single antenna version: 112 x 42 x 19 mm Diversity antenna version: 114 x 81 x 22 mm

Weight: Single antenna version: ~100 g Diversity antenna version: ~250 g

**Ports:** 10/100 ethernet port

Modulation: OFDM

**RF Connectors:** 2 x RPSMA

Enclosure Material: Aluminum

Max Power Consumption: 8 W

**Power Supply:** 24V, 1A PoE supply

**Power Method:** Passive PoE (pairs 4,5+; 7,8 return)

**Operating Temperature:** -30° to +75°C

**Operating Humidity:** 5 to 95% condensing

Shock and Vibrations: ETSI300-019-1,4

**Operating Frequency:** 5170-5875 MHz

Encryption: AES standard

#### MPEG H264 IP Encoder

**Size L x W x H:** 117 x 113 x 24 mm

Weight: ~400 g

Encoding: MPEG - H264

Input Video: PAL - NTSC

Streaming Video: 2 simult. Stream - H264/Motion Jpg

