



# USB TIMING BOX

The USB Timing Box is a compact, reliable alternative to Ubidium. It uses a wire loop at the timing point to detect active transponders and connects directly to a PC, transmitting live timing data to the software.



## Features

- 100% detection rate
- 1,000 detections internal memory
- 12-hour internal backup battery
- receives data from Loop Boxes
- 1/1000th data resolution
- Open SDK for software development
- highest clock stability on the market (0.28 ppm)

### Safety & conditions USB Timing Box

Protection class with cable / antenna screwed on	IP67 -waterproof
Regulatory conformity	CE, RoHS, FCC
Temperature	-30°C to 70°C
Dimensions / weight	27 x 66 x 117 mm / 266 g

### Power & Battery

Battery	LiPo, 4,000 mAh, 3.7 V 12 hours
USB 1.1	500 mA

### 2.4 GHz RF & loop specification

Transponder 2.4 GHz channel frequencies	1: 2.480 MHz / 2.405 MHz 2: 2.405 MHz / 2.470 MHz
main / backup (worldwide compliance)	3: 2.425 MHz / 2.465 MHz 4: 2.475 MHz / 2.440 MHz 5: 2.415 MHz / 2.445 MHz 6: 2.460 MHz / 2.430 MHz 7: 2.435 MHz / 2.455 MHz 8: 2.450 MHz / 2.420 MHz
2.4 GHz TX power	17 dBm
2.4 GHz Antenna	3 dBi Gain
Loop frequency & data	125 kHz data-packet = Loop ID + channel packet rate: 150 Hz OOK-modulation, manchester encoded, 16bit anti-false-wakeup pattern
Loop length	5 m - 25 m, > 0.5 mm <sup>2</sup> standard 4 mm banana plugs
Internal data buffer	1,000 transponders
Read range	
25% Loop power	60 cm (2 ft)
100% Loop power	2 m (6 ft)
Detection rate	100%
Read rate	> 250 chips/second burst for 4 seconds > 50 chips/second continuously