



# T-CZ Mode S Remote Transponder

## OVERVIEW

Mode S Remote Transponder is DO-260B certified source of Mode A/C and Mode S messages for testing and checking of integrity of SSRs and other systems for Air Traffic Control. Mode S Remote Transponder is equipped with accurate GPS receiver, coaxial connectors for GPS and 1030MHz / 1090 MHz antenna, Ethernet connector for network connection.

## KEY FEATURES

- 19" (2U) (414 x 484 x 88)
- Fixed position setting.
- Optional GPS source of position and time.
- Optional transmitting calendar setting
- Supported net protocols IPv4, Telnet.
- Remote management, diagnostic & control.
- LED status indication.
- Ethernet interface
- Easy setting of transponder parameters
- Optional transportable case
- Factory settings reset

## SPECIFICATION

Part number: 7QP794918.1

### Transmitter

- Transmit Frequency 1090 MHz
- Transmit Power 200 W at connector

### Receiver

- Center Frequency 1030 MHz
- Sensitivity  $-74 \pm 1$  dBm for \*90% replies

### Parameters

- Interrogation Modes 3/A, C, S Level 2
- Altitude -1000 to 99,000ft, 100ft incr.

### Transponder Standards

- EUROCAE ED-73E
- MOPS DO-181E Class 1, DO 260E Class B1S, DO 160G, DO 178B Level B, DO 254 Level C
- TSO C112c, C112d, C166b

### Power

- AC Input 100-240 V AC
- DC Input 48V DC
- Power consumption Idle <2W, Active <12W

### Dimensions

- Antenna 380 x 260 x 110 mm
- GNSS antenna 74 x 74 x 83 mm
- SSR Monitor (2U) 414 x 484 x 88 mm

### Weight

- SSR Monitor 5,5 Kg
- Antenna 3 Kg
- GNSS antenna 120 g

### Environmental

- Operating Temperature  $-25^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- Storage  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Operating humidity Up to 95% non-condensing





## SECTOR ANTENNA 6DBI, 90°

Sector antenna is dedicated for receiving signals in ADS-B/MLAT systems. The antenna is rugged and durable to withstand the harshest of environment. With 90° horizontal pattern is designed to reduce garbling of ADS-B messages out of the main beam.



### Technical Specification

- Frequency range 1030-1090 MHz
- Gain  $\geq 6$  dBi
- Return loss  $\geq 10$  dBi
- Power Rating 300 W CW avg.
- H-Plane Beamwidth 90°
- V-Plane Beamwidth 50°
- Cross Pol. Discrimination 20 dB min.
- Impedance 50  $\Omega$  (nominal)
- Termination N female

### Physical Specification

- Length 380 mm
- Width 260 mm
- Depth 110 mm
- Rated Wind Velocity 200 km/h

### Material

- Radiating Elements Tin plated brass
- Reflector Chromate alum
- Radome Epoxy resin reinforced fiberglass radome with UV protection
- Claps Stainless steel, Gal. steel

## KT 74 BENDIX KING

ADS-B OUT compliant Mode S Transponder offers a sleek design, low power consumption a stop watch, a built in altitude monitor and repeater.



### Technical Specification

- Certification ETSO C112d, TSO C112d; Class 1 Level 2 els; ETSO C166b, TSO C166b; Class B1S
- Compliance EUROCAE ED-73E, EUROCAE, ED-14G (RTCA DO-160G), RTCA DO-181E, RTCA DO-260B
- Supply Voltage (DC) 11-33V DC
- Operating Temperature -13 to 158°F (-25 to +70°C)