



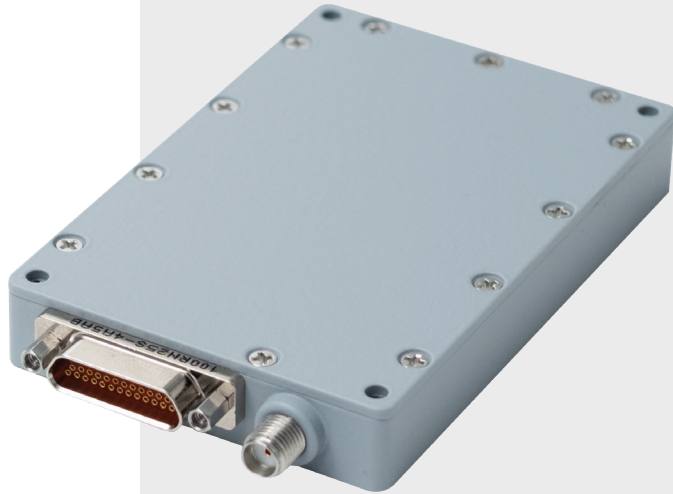
FLIGHT TERMINATION RECEIVER

GENERAL DESCRIPTION

Programmable Flight Termination Receiver is a compact airborne flight termination receiver and tone decoder for flight termination system applications that utilized tone based command messaging. FTR provides highly sensitive superheterodyne RF receiver whose center frequency is programmable.

The versatile tone decoder can be programmed to decode 4 tone sequences / frequencies among 20 IRIG tones and provides command outputs for flight termination devices.

FTR can be enabled for full fail-safe operation, including programmable loss of tone duration. FTR is designed using latest technology and modern production processes to provide a reliable and rugged product.



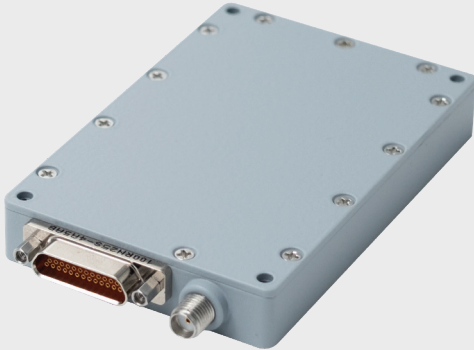
KEY SPECIFICATIONS

- High sensitivity receiver
- Wide range programmable RF center frequency
- Programmable decoder tone frequencies
- Full failsafe operation (Cross-strapping available)
- Reverse polarity power protection
- Light weight
- Compact size
- IRIG Compatible
- MIL-STD-810G Compatible
- Receiver signal strength telemetry output (SSTO)
- RS422 Communication
- RCC 319-14 Compliant
- RCC 313-01 Compliant


FAILSAFE OPTIONS

- Loss of Tone (Programmable from 5 to 99 sec)
- Low Voltage (Programmable from 12V to 36V)
- Cross-strapping Option

FLIGHT TERMINATION RECEIVER




Dimensions (cm)

 Single: 8.4 x 5.6 x 1.3

Weight (g)

 97

Frequency Range

 390-450 MHz

Input Voltage

18 - 36 Vdc

Command Outputs

4 Solid-State Output

Input / Output Impedance

50 Ohm

RF Connector

SMA Female

Power & I/O Connector

25-pin Micro-D Socket

RF Receiver Characteristics

Dynamic Range

-107 dBm to +13 dBm

RF Sensitivity Range

Between -107 dBm to -116 dBm

Demodulation

FM up to 4 tones

Power Consumption

5 W Max

VSWR

Less than 2:1

Operating Temperature

-40 °C To +85 °C

Programming Interface

RS422

Signal Strength Telemetry Output

Quiescent (No RF) Input

0.5 +/- 0.25VDC

Between -50 dBm to -60 dBm RF Input

min 4.5 +/- 0.25VDC

Max. SSTO Voltage

5 +/- 0.25VDC

Tone Decoder

Tone Monitor Outputs (Active)
4.5 VDC +/- 0.5VDC

Tone Monitor Outputs (Non-active)
0 VDC +/- 0.5VDC

Response Time
4 msec to 25 msec

Input Current

150 mA max @ 28 Vdc

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