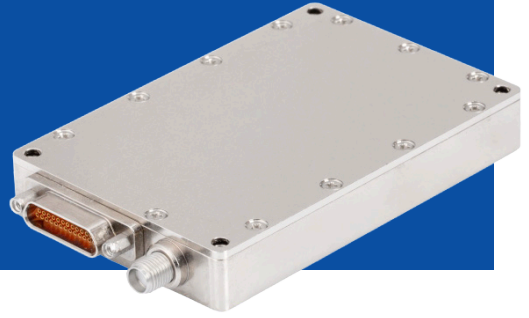


FLIGHT TERMINATION RECEIVER



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.

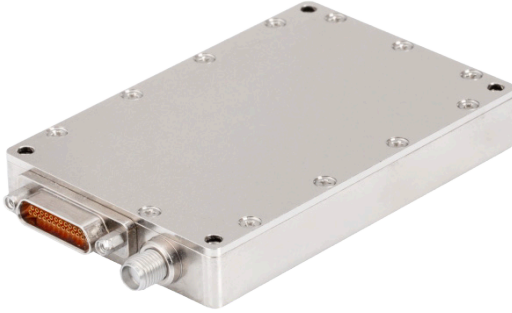
The versatile tone decoder can be programmed to decode 3 or 4 tone sequences / frequencies among 20 IRIG tones and provides command outputs for flight termination devices.

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

FLIGHT TERMINATION RECEIVER



Weight (g)
97

Dimensions (cm)
Single: 8.4 x 5.6 x 1.3

Frequency Range
390-450 MHz

Input Voltage
18 - 36 Vdc

Command Outputs
4 Solid-State Output

Input / Output Impedance
50 Ohm

RF Connector
SMA

Power & I/O Connector
25-pin Micro-D Socket

Input Current
150 mA max @ 28 Vdc

Power Consumption
5 W Max.

VSWR
Less than 2:1

Operating Temperature
-40 °C To +85 °C

Programming Interface
RS422

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

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

FAILSAFE OPTIONS

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

