



## Special Features:

### •Automatic Data Rate Tracking

Premod filtering and deviation automatically track the data rate, with no programming or configuration required.

### •Intuitive Control

Straightforward configuration and control and platform-independence with serial terminal programming

### •Clock-Free Input Option Available

Ideal for replacing analog transmitters or for use with encoders or cryptos that provide a data output, but no clock.

### •Variable Power Option Available

4 setting over 16 dB range and power off ( 20 dBm, 27 dBm, 32 dBm, 36 dBm ).

### •PCM/FM Option Available

PCM/FM (ARTM Tier 0) (14 Mbps for PCM/FM).

## MAIN SPECIFICATIONS

Carrier frequency range: ( factory setting ). 2185 - 2475 MHz.

RF output power: 5 W ( 37 dBm  $\pm$  1 dB ) all conditions.

VSWR < 1.8

Load mismatch ( VSWR =  $\infty$  ): no degradation.

Carrier frequency tuning increment: 0.5 MHz (synthesized)

Carrier frequency accuracy:  $\pm$ 2.5 ppm over temperature,  $\pm$ 7.5 ppm all clauses, including aging over 5 years.

Modulation: SOQPSK-TG (Tier I).

Data rate: 1 to 28 Mbps automatic adaptation.

Signal interfaces : Serial data with separate synchronous clock, TTL or TIA/EIA-422 (RS-422) factory setting.

Control interface: RS-232 serial control.

Randomizer: 15 stage LFSR per IRIG 106 selectable for bypass or enable.

## POWER REQUIREMENT

28 V DC ( 18 V min to 36 V max ), other on request.

1.4 A at 5 W for 28 V.

Reverse polarity protection.

Thermal protection.

## ENVIRONMENTAL CONDITIONS

Storage temperature range : - 55 to + 100° C.

Operating temperature range : - 40 to +85° C.  
( 100°C max baseplate ).

Humidity: 95 %

Vibration: 20 Hz to 2000 Hz:  
20 g random 3 axes.

Shock: 11 ms, 100 g 3 axes.

Acceleration: 100 g 3 axes.

Altitude: 25 000m

EMI: MILSTD 461 462 463A

## DIMENSIONS

Dimensions ( L x h x l ): 143 x36 x 70 without heatsink, need thermal resistance below 1.1°C/W to correctly operating without permanent damage.

Weight: 500 g without heatsink.

RF output connector : SMA.

Power connector, Signal and Control interfaces : MDM 15.

\*Specifications subject to change without notice.

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