



TRANSMITTER

S-Band - Digital - 5W



IN-SNEC

This 5W S-band digital transmitter is dedicated to send telemetry or video data from telemetering systems or video cameras to ground stations.

Many modulations are available by software configurations to meet most system requirement and to offer a complete solution to your data link needs.

Its compactness, its lightweight and its robustness make it ideal for integrations as well in fixed systems as in vehicles with little available space and harsh environment like target drone, unmanned vehicle, light aircraft, terrestrial vehicles,...

Applications

- Telemetry from aircraft, ground vehicles or fixed systems
- Generation of an analog or digital data modulated S band carrier dedicated to :
 - ◆ Low to high data rate transmission
 - ◆ Low data rate transmission on IRIG subcarrier versus IRIG106
 - ◆ Analog TV signal transmission

Main features & benefits

- Highly versatile transmitter
- High ruggedness, RF shield
- Remote controlled via a PC
- Low power consumption
- Low weight

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Electrical specifications

- ◆ Bandwidth 2188 to 2475 MHz
- ◆ Frequency step 500 kHz
(smaller step on request)
- ◆ Frequency stability ± 20 ppm
- ◆ Output power 5W
- ◆ Available modulations by software configuration
 - PCM version PCM/FM
 - Binary Phase Shift Keying
 - Quadrature Phase Shift Keying
 - Offset Quadrature Phase Shift Keying
 - Shaped Offset Quadrature Phase Shift Keying
 - FSK version PCM/FSK/FM
versus IRIG106
 - Video version
 - Rate < 15 Mbit/s
- ◆ Output impedance 50 Ω
- ◆ VSWR < 1.5
- ◆ Spurious and harmonics versus MIL STD 461E -
CE106 and IRIG106
versus IRIG106
- ◆ Phase noise
- ◆ PLL acquisition time from switch on ≤ 1 second
- ◆ Deviation sense : positive or
negative by
software configuration
- ◆ Incidental frequency modulation
over environment : < 20 kHz eff.

Mechanical characteristics

- ◆ Dimensions 3" x 2" x 1.5"
- ◆ Weight 250 g
- ◆ Vibrations MIL STD 810F
method 514.5
(jet aircraft)

Interfaces

- ◆ RF output SMA-female
- ◆ Configuration and power supply MDM9
- ◆ Modulating signal and clock MDM9
(if available)

Environmental conditions

Operating conditions

- ◆ Temperature range -20°C to +80 °C
- ◆ Relative humidity 35% to 95%
non condensing

Non operating conditions

- ◆ Temperature range -40°C to +80 °C
- ◆ Relative humidity 35% to 95%
non condensing

Primary power

- ◆ Voltage 24 VDC to 32 VDC
- ◆ Power consumption 40 W
- ◆ Protected against power supply polarity inversions
- ◆ Compliant to Mil STD 461E
tests CS101, CS114,
CS115 & CS116

Ordering information

■ Model reference

SM52116301A



IN-SNEC

IN-SNEC Normandie : 2, rue de Caen - 14740 Bretteville l'Orgueilleuse - France
(Head Quarters) Ph. +33 (0)2 31 29 49 49 - Fax. +33 (0)2 31 29 49 25

IN-SNEC Paris : 5, avenue des Andes - BP 101 - 91943 Les Ulis Cedex A - France
Ph. +33 (0)1 69 82 78 00 - Fax. +33 (0)1 69 07 39 50

IN-SNEC Aquitaine : Aérodrome d'Arcachon - 33260 La Teste - France
Ph. +33 (0)5 57 52 76 30 - Fax. +33 (0)5 57 52 76 40

Email

contactinsnec@zodiac.com

<http://www.in-snec.com>

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