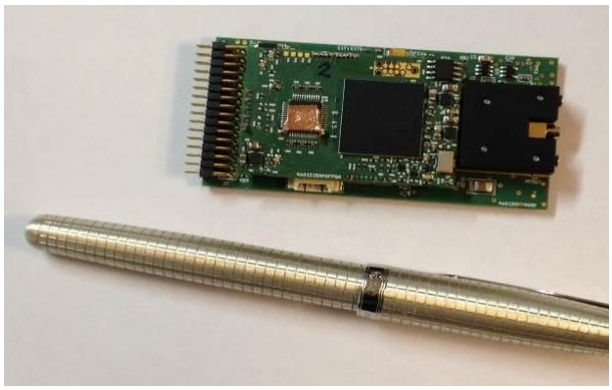
S BAND DIGITAL PCM/FM or Analog 1W TRANSMITTER



Release .0

POWER REQUIREMENT

0.9 A @5VDC for 1 W RF output power at room temperature S band for the Analog FM version.
1.7 A @5VDC for 1 W RF output power at room temperature S band for the Difigital FM version.

ENVIRONMENTAL CONDITIONS

Non Operating temperature range : - 55 to + 100° C.
Operating temperature range : - 30 to +70° C.
(85°C max baseplate).

MECHANICAL

Dimensions (L x l x h): 67 x 36 x 8 mm excluding heatsink and connectors.
It needs a heatsink for operating properly without permanent damage.
Weight: around 0.15 kg without heatsink.
RF output connector : MMCX.
DC Power, Control Signals (RS232) and Modulation signals are plugged on DIL connector.

RF SPECIFICATIONS

Carrier frequency range: 2.2 GHz to 2.4 GHz.
RF output power:
1 W (30 dBm ± 1 dB) S band all conditions.
Load mismatch (VSWR = ∞): no degradation.
Carrier frequency tuning increment : 0.5 MHz.
Carrier frequency accuracy@room temperature :better than 2.5 ppm (S and C bands).
Carrier frequency stability: below 10 ppm over temperature range..

DIGITAL PCM/FM MODULATION SPECIFICATIONS.

Modulation: PCM/FM(Tier0).
Data rate PCM/FM:
1 to 14 Mbps automatic adaptation of deviation according to Tier0 IRIG mask.
Signal interfaces:
Serial data with separate synchronous clock, TTL 5V input impedance: 50 ohms.

ANALOG PCM/FM MODULATION SPECIFICATIONS

Data rate PCM/FM:
1 to 14 Mbps.
Signal interfaces:
PCM/FM input 1V peak to peak no base band filter 50 ohms.

*Specifications subject to change without notice.

Distributed by AA SYSTEL
9 rue Ravel 91620 Nozay – France
Tel 33 1 69 63 86 30 – e-mail : wang.huiqin@aasystel.com