

NT Series Transmitter

The new NT Series transmitters from GMS incorporate the latest microwave technology in a subminiature package. The new NT operates in L, S, or C-Bands with a nominal RF power output of 1 or 250mW. Broadcast quality video (NTSC or PAL) with one audio subcarrier make this transmitter ideal for hidden camera and point-of-view applications where weight and size are critical factors. The new NT Series is a fully synthesized 16 channel (field programmable) transmitter. Audio subcarrier input may be factory configured for either microphone or line level.



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SPECIFICATIONS

RF

Frequency range: 0.9 - 6 GHz (in bands)
(other frequencies available)
Frequency stability: $\pm 0.005\%$
Power output: 1 mW, 250 mW (Factory set)
Spurious: Lower than -25 dBm
Sensitivity: $\pm 4\text{MHz/Volt}$ (FM)

Power

Voltage: 11 - 15 VDC
Current: 80 mA at 1 mW RF out
150 mA at 250 mW RF out

Video (FM modulated)

Input impedance: 75 Ω
Input level: 1 Volt (peak-to-peak)
Pre-emphasis: Per CCIR 525/625 line
Frequency response: 10Hz-5MHz (NTSC)
or 5.5 MHz (PAL)

Environment

Temperature: -20° to +60° C
Humidity: Up to 100% non-condensing

Audio (FM/FM modulated)

Sub-carriers available 4.83, 5.8, 6.0, 6.2, 6.5, 6.8,
(any one): 7.2, 7.5, 8.3, 8.5, 8.59 MHz
Input impedance: >10 K Ω , unbalanced
Frequency response: 50 Hz to 15 kHz:
1 dB peak-to-peak

Mechanical

Size (inches): 0.9 x 1.3 x 0.38 (less mounting flange) = 0.44 inch²
Weight: < 1 oz. (28.4 grams)
RF output connectors: SMA-F
Video/audio/power connectors: JST, ZR
9 Pins
Pin 1: Video in
Pin 2: GND
Pin 3: VCC
Pin 4: + 5 VDC (MIC bias)
Pin 5: Audio in
Pin 6: PA shutdown
(output TTL signal)