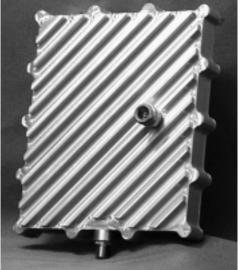
The WaveCom **TR2126** is an MMDS/MDS Transceiver for use in wireless systems. The TR2126 integrates an LNA, downconverter, upconverter, power amplifier, RF and IF diplexers to provide a one-box solution for two-way Wireless RF communications. The TR2126 and antenna are

situated outdoors and connected to a cable modem indoors by standard RG-59 cable. A single RF connector on the weatherproofed enclosure provides the interface to the transmit/receive antenna for rapid setup. The Transceiver is configured to work with standard cable modem frequency plans and levels, permitting direct connection. The Transceiver also includes

an RF mute function to reduce power consumption and broadband noise emissions.



Features:

- +30 dBm output for high reverse channel system gain
- Microprocessor controlled gain compensation over temperature
- Low Phase Noise

- Automatic transmit RF mute (transmits only when an IF signal is present)
- Fully weatherized unit suitable for outdoor mounting



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BRO1M0301 - Rev09(0005)

WAVECOM ELECTRONICS INC. 222 CARDINAL CRESCENT SASKATOON, SK, CANADA S7L 6H8

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website: www.waveCom.ca E-mail: sales@WaveCom.ca

SPECIFICATIONS — WAVECOM TR2126

MMDS/MDS Transceiver

UPCONVERTER SPECIFICATIONS

IF Input Frequency RF Output Frequency

Output 1dB Compression Point

Gain

Gain Flatness In-band Spurious Out-of-band Spurious

Phase Noise

IF Level for RF Activation

14.375 to 26.375 MHz 2150 to 2162 MHz

+30 dBm

 30 ± 2 dB across full temperature range

(field adjustable to 20± 2 dB)

± 0.75 dB full band

-60 dBc

-95 dBc/Hz @ 10 kHz -110 dBc/Hz @ 100 kHz

0 dBmV

DOWNCONVERTER SPECIFICATIONS

RF Input Frequency
IF Output Frequency

Nominal Gain Gain Flatness Noise Figure

Output 3rd Order Intercept

Radar Rejection WCS Rejection PCS Rejection Image Rejection Spurious

Phase Noise

2500 to 2686 MHz 222 to 408 MHz

 $32 \pm 2 \, dB$

± 2 dB full band; ± 0.3 dB/ 6 MHz 3.5 dB typically, 4.5 dB maximum

+24 dBm at nominal gain 26 dB (15 dB pre-LNA) 70 dB (35 dB pre-LNA) 95 dB (50 dB pre-LNA)

90 dB -70 dBm

-95 dBc/Hz @ 10 kHz -110 dBc/Hz @ 100 kHz

GENERAL

Frequency Setting & Stability Frequency Stability Over Time

RF Connector IF Connector

Input/Output VSWR

DC Supply

Operating Temperature

Size

Mounting

± 5 kHz (-40 to +60°C) < ± 10 kHz over 10 years N female, 50 ohms

F female, 75 ohms

2:1

18 to 24 V, 12 Watts max. -40 to +60°C (-40 to +140°F)

6" x 7" x 1" (15.24 x 17.78 x 2.54 cm)

Pole or wall mount



222 CARDINAL CRESCENT, SASKATOON, SK S7L 6H8
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