

# 1/2GHz FM-TV-Stereo- Modulator

## FM-modulated Transmitter for Terrestrial TV Distribution

In rural areas or over very long ranges the distribution of TV programs by cable is a very expensive solution.

As an economical alternative we can offer the distribution by microwave links in the 1-2GHz range under the condition of optical sight between transmitter and receiver.

This transmitter delivers a signal which is identical to a standard satellite signal.

This means that standard satellite receivers could be used for reception which is a very low cost solution.

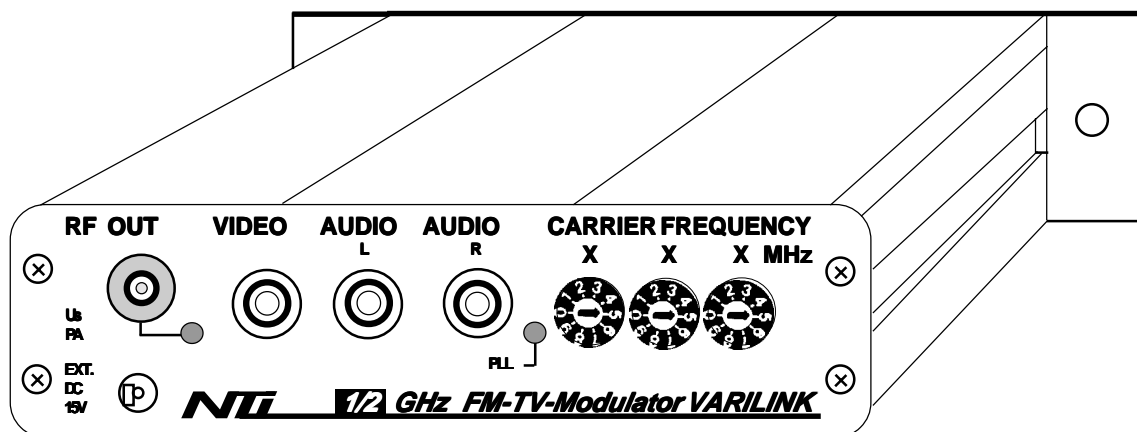
This system can supply an unlimited number of receivers within the transmitter's range.

When using 12dB gain antennas for transmitting and receiving the distribution range is about 10 kilometers.

We can also offer an accu-powered version (12V/1.3Ah=8hours) for portable or solar-powered applications.

For high frequency accuracy the transmitter is phase-locked (PLL).

It is also possible to feed an additional power amplifier (PA) by the coax cable to the antenna (I max. 300mA).



### Technical Data

Frequency: 400MHz wide segment within 800-2500MHz (please specify when ordering)

Frequency Step-width: 1MHz

Video Input (Cinch): 1V<sub>ss</sub> / 75Ohms (adjustable)

According Frequency Deviation/Bandwidth: 0-36MHz

Audio Input (Cinch): 600mV / 1KOhms(adjustable)

Stereo Sound Sub-carriers: Nom. 7.02 & 7.20MHz / 100KHz deviation

(other frequencies from 6-8MHz also possible)

Video-deemphase: according CCIR-405

Output Power: 0dBm = 1mW (+/-3dB)

Supply: 12 - 15V DC / max. 150mA

Dimensions: 31 x 113 x 165mm

Weight: ca. 250g

Specifications are subject to change without notice.

Only for export purposes; please check the according local legal regulations.

### Option:

Broadband-PA (850-2300MHz) with 23dBm (200mW) output level.

**NTI**®

Dipl.Ing. Rudolf Ille Nachrichtentechnik • P.O.Box 1703 • D-79507 Loerrach  
Tel. +49 7621 / 14756 • Fax +49 7621 / 18840