



MMWL-004

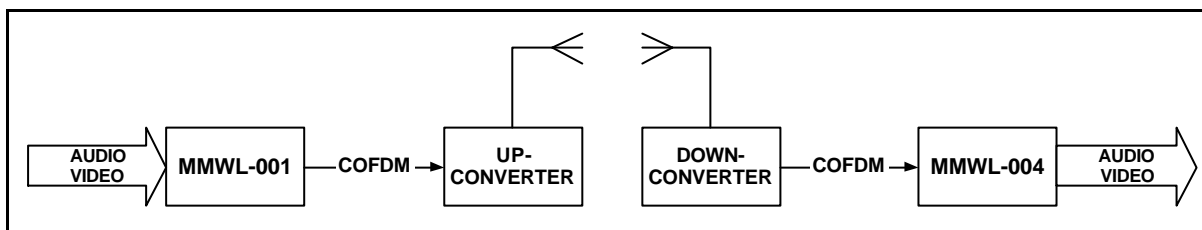
COFDM / 4:2:2 MPEG-2 Demodulator

MMWL-004 is a high performance COFDM receiver evaluation system designed by M.B. International.

It features the demodulation plus decoding path for a COFDM digital wireless video link. Full broadcast picture quality is guaranteed by M.B. International proprietary COFDM design and MPEG-2 video decoding.

Low cost, portable size and very low power consumption make it the base for developing custom COFDM Wireless Video Links for broadcasting, security, military and police. MMWL-004 is provided to demonstrate the high quality available using M.B. International solutions.

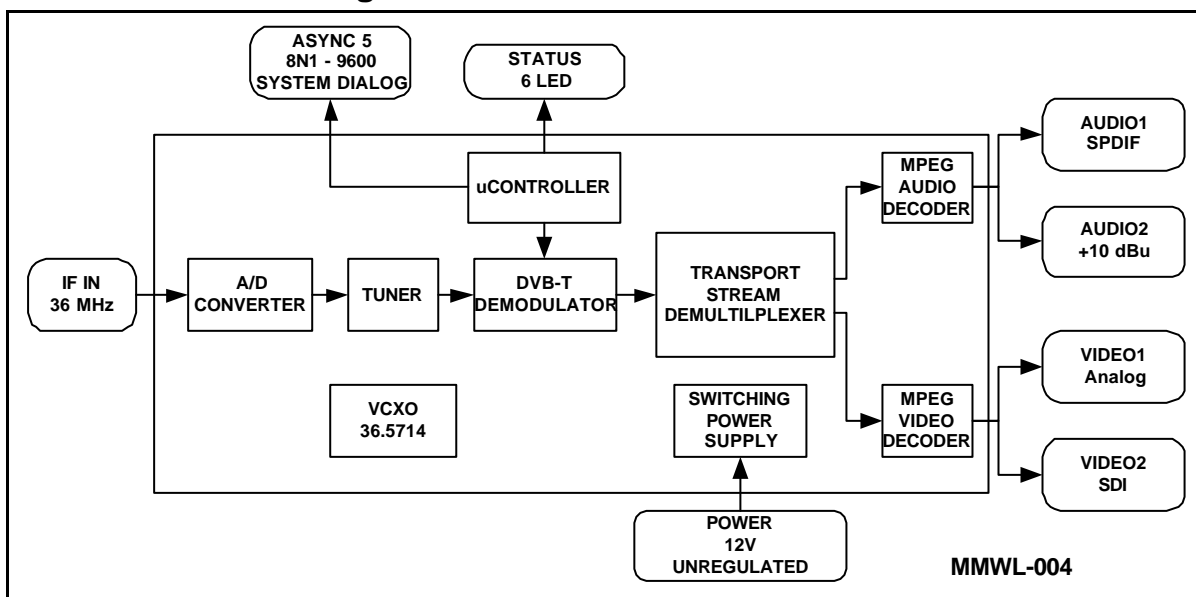
It is the Broadcast Quality companion demodulator for the MMWL-001 evaluation system.



The evaluation system is composed of:

1. ROFDM-011-A COFDM Demodulator
2. MPEG-2 low delay 4:2:2 (4:2:0) Decoding board
3. A/V and control interface

MMWL-004 Block Diagram





MMWL-004 Features

Inputs:

1. Nr. 1 COFDM DVB-T like input:
 - a. IF: 36 MHz
 - b. 2K/8K carriers
 - c. 8 MHz bandwidth

Outputs

1. Nr. 1 Analog Audio (L+R)
2. Nr. 1 SPDIF Digital Audio (L+R)
3. Nr. 1 Analog Video (Composite)
4. Nr. 1 Digital Video (SDI)

Interface

1. Nr. 1 serial RS 232 for both MPEG encoder and COFDM modulator setups
2. Nr. 1 7 bit BCD connector for COFDM parameters setup
3. Nr. 6 Status LEDs

OFDM Performances:

1. Input Level = -16 dBm
2. Input Center Frequency: 36 MHz
3. COFDM settings: all non hierarchical modes of ETS 300 744
4. Preset receiving mode
5. Extended dynamic range tuner
6. Dynamic range: >60 dB
7. Adjacent channel: <30 dB higher than main channel
8. Fast locking time algorithm

Other Performances:

1. MPEG 2 decoding modes: 422P@ML and 420 ML@MP
2. Single 12 V unregulated power supply