

Specification DVB-T/TV-Tuner Card CTX917 V.1

DESCRIPTION

The FMD1216ME belongs to the new family of highly featured hybrid frontends, which are designed to meet a wide range of RF applications in the PC/TV Multi-Media environment. The FMD1216ME combines the functions of a DVB-T tuner, an FM radio tuner, an all-band TV tuner, and a multi-standard TV IF demodulation unit for both positive and negative modulated TV systems. The unit includes a switchable 7/8 MHz digital SAW filter with an IF AGC amplifier for connection to the DVB-T channel decoder. The FMD1216ME is intended for CCIR L/L' (France), B/G, I and D/K systems and FM broadcast.

A voltage switch is built-in to select between DVB-T and PAL, in order to conserve energy. The frontends have a built-in digital (I²C) PLL tuning system. A DC-DC converter circuit is built-in in the FMD1216ME to synthesize the tuning voltage required, thus making the frontend a true 5V device.

FEATURES

- DVB-T and Analog Multi-Standard TV Broadcast reception
- FM radio band coverage from 87.50 MHz to 108.00 MHz
- Full frequency range from 48.25 to 863.25 MHz*
- Ultra linear FM PLL demodulator for FM radio broadcast
- Complying CENELEC 55020, 55013 and CISPR 20 / 13
- PCI-Bus Interface
- RF-Input for TV-Antenna and FM-Radio at bracket side
- Input for Audio-In, Audio-Out, S-Video-In and composite Video-In

INTERMEDIATE FREQUENCIES

SYSTEM	DVB-T	L	L'	B/G	D/K	I
Picture carrier Or Center Frequency		38.90	33.95	38.90	38.90	38.90
Color	-	34.47	38.38	34.47	34.47	34.47
Sound 1	-	32.40	40.40	33.40	32.40	32.90
Sound 2	-	-	-	33.16	-	-
NICAM	-	33.05	39.80	33.05	33.05	32.348

CHANNEL COVERAGE

BAND	FREQUENCY (MHz)
FM radio band	87.50 to 108.00 MHz
Low band	48.25 to 158.000 MHz*
Mid band	160.00 to 442.00 MHz
High band	442.00 to 863.25 MHz

*Can cover down to 45.75 MHz (CH A for Ireland)

**AUDIO-IN (White)**

- 1 – Left channel-In
- 2 – GND
- 3 – GND
- 4 – Right channel-In

AUDIO-OUT (Red)

- 1 – Left channel-Out
- 2 – GND
- 3 – GND
- 4 – Right channel-Out

VIDEO-IN (Yellow)

- 1 – C-In (S-Video)
- 2 – GND
- 3 – CVBS-In (Composite Video)
- 4 – Y-In (S-Video)

SELECTED FEATURES:

- Audio-In connected directly to Audio-Out by wire
- Composite Video-In
- S-Video-In
- Composite Video-In and S-Video-In are using the same input channel
- The connectors for Audio-In, Audio-Out, S-Video-In together with composite Video-In are realized as 4-Pin Headers.