

CTX1924_V2 TV-Tuner Card

Product Specification

Release: 07 17 09

Description:

The CTX1924 is a PCI express multimedia receiver and capture card for general purpose, multimedia and Media Center Edition (MCE) PCs.

To complete the MCE functionality the CTX1924 optionally, can have a flexible Remote Control (RC) receiver and transmitter.

Features:

Analog TV

- Worldwide multistandard analog TV IF demodulator (M/N, B/G/H, D/K, I, L/L')
- Luminance and chrominance signal processing for:
 - PAL BGDHIN
 - PAL M
 - Combination PAL N
 - NTSC M
 - NTSC Japan
 - NTSC 4.43
 - SECAM
- High-performance super-adaptive NTSC/PAL comb filter for 2-dimensional chrominance and luminance separation
- 2-dimensional noise reduction
- Automatic video standard detection
- Automatic detection of signals from consumer grade sources (e.g. VCRs)
- Versatile Brightness-Contrast-Saturation (BCS) adjustment for CVBS, S-video, RGB and Y-PB-PR component processing
- Easy discrimination between CVBS signals, Y/C signals and Y-PB-PR signals
- Raw Vertical Blanking Interval (VBI) data capturing
- Copy protection detection (Macrovision).
- Decodes all standards for TV mono and stereo sound (BTSC, EIAJ, NICAM, FM A2 and AM)

DVB-T

Performance features of the DVB-T receiver:

- Automatic frequency offset detection
- Pulse-killer algorithm to reduce the disturbing effects of short and strong noise pulses
- A powerfull Co-Channel Interference (CCI) cancellation algorithm
- Enhanced equalization algorithms to reduce echos from outside the guard interval.

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- Digital Signal Processor (DSP) synchronizes and controls the demodulation of the input signal. The DSP gives reliable output signals, even with interference from co-channels, adjacent channels or from Single Frequency Network (SFN) echoes. It enables fast scan and channel zapping within the UHF/VHF band.

DVB-S /S2

- RF input: 925 – 2175 MHz
- Symbol rate: 1- 45 MSps
- Noise figure: 10 dB, typical
- Input IP3 at minimum gain: 10 dBm, typical
- Transmission format support:
 - LDPC/BCH (DVB-S2)
 - 8PSK: SR = 10 – 31 MSps
 - QPSK: SR = 20 – 36 MSps
 - DVB-S: SR = 1 – 45 MSps
- DiSEqC 1.0 compliant
- Power down mode

FM-Radio

- Decodes all standards for TV mono and stereo sound (BTSC, EIAJ, NICAM, FM A2 and AM)
- FM radio stereo demodulation
- RDS demodulation and decoding

S-Video IN, Composite Video IN,

Audio IN

- Automatic sound standard detection
- Automatic dematrixing (stereo and dual)
- One stereo Sample Rate Converter (SRC) to 32 kHz, 44.1 kHz or 48 kHz sampling rate
- Volume and mute control
- Automatic Volume Leveling (AVL)
- Dynamic Bass Boost (DBB).

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Remote control

The CTX1924 includes a full MCE compliant remote control circuit. It supports one receiver and two transmitter. To support learning capabilities the CTX1924 can switch the receiver between two input pins (long distance and short distance).

Ratings:

DC Input:	+ 3.3V	===	500mA
	+ 12V	===	200mA
	+ 12VLNB	===	900mA

PCB Dimension:

68mm x 140mm

System Requirement:

- Pentium IV 2.0 GHz or Higher
- 1GB of system memory or higher
- Microsoft Windows XP/Vista x86 / Vista x64/ Windows 7
- Microsoft DirectX 9 or higher

Order Information:

CTX1924_V.2.1.1 ATV, DVB-T, DVB-S, DVB-S2, FM,

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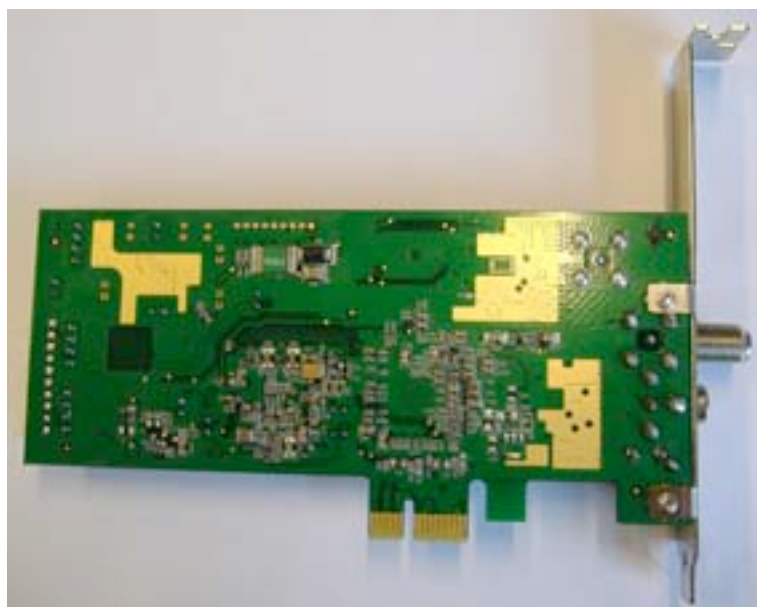
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Top-Side:



Bottom-Side:



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