

PCI Based demodulator

AT780PCI

Digital Video Interfacing Products

AT780PCI

- ◆DVB-T2/T/C Receiver, Recorder & Converter
- DVB-T2/T/C Input
- DVB-ASI & DVB-SPI (LVDS) Outputs
- Supports 6 / 7 / 8 MHz Bandwidth

Standard Features:

© Combined DVB-T2/T/C Input and DVB-ASI/SPI Output Board.

© PCI 2.2, 32 bit, 33/66MHz 3.3V.

© Bus Master DMA, Scatter /Gather Interface Protocol.

OWindows 2000 & XP Drivers & SDK and Linux Drivers.

Accompanied by DVSStation3 Alitronika's Application Software.
 DVB-T2/T/C Compliant COFDM Reception.

◎Modulation Modes: DVB-T/T2: QPSK, 16QAM, 64QAM

◎ Modulation Modes: DVB-C: 64QAM, 128QAM, 256QAM

© Guard Interval: DVB-T/T2: 1/4, 1/8, 1/16, 132

Supports hierarchical & non-hierarchical modes.

Supports 188, 204 Transport Packet Sizes.

© RF Loop Through Output.

© Simultaneous two Serial and one Parallel Outputs.

◎ Supports DVB According to Standard A1010 Rev1 and EN50083.

RF Specifications:

On Board Buffer: 16 Mbytes

©RF Tuner Connector: 75 Ohms IEC female Type

©Loop Through Connector: 75 Ohms IEC male Type.

- ◎ Input Frequency Range:
- High Band: 434.0 MHz to 858.0 MHz.
- Mid Band: 149.5 MHz to 426.0 MHz
- •Low Band: 50.5 MHz to 142.5 MHz.
- © Channel Bandwidth:6, 7 & 8 MHz.

◎ RF Sensitivity: -80dBm.

©COFDM Spectrum:2k and 8k carriers non-hierarchical and hierarchical.

© Standards: DVB-T2, DVB-T, DVB-C compliant.

OModulation Modes:

- DVB-T/T2: QPSK, 16QAM, 64QAM
- •DVB-C: 64QAM, 128QAM, 256QAM

© Guard Interval Modes: 1/4, 1/8, 1/.16, 1/32.

More Products, More Functions, Less Cost!



Application:

Targeted for Digital Video Professionals, Sophisticated End Users and OEMs, the AT780PCI is an ideal solution for a number of applications such as:

Development Tools.
 IP to DVB Gateway.
 DVB-T2/T/C to DVB-ASI & DVB-SPI Converter
 MPEG-II TS Recording, Monitoring, Playing & Processing
 Software Based MPEGII Decoders

Power Consumption & Size Power Consumption: 5 Watts Size LxH: 175mm x 107mm

ASI/SPI Specifications:

On Board Buffer: 16Mbytes
DVB-ASI Connectors: 75 Ohms BNC
DVB-ASI Signal level: 1.0Vp-p nominal
DVB-ASI Clock: 270 MHz
DVB-ASI Output Bit Rate: 0 to 204 Mbit/s.
DVB-SPI Output Clock: 0 to 13.5 MHz.
DVB-SPI Output Bit Rate: 0 to 108 Mbit/s.
DVB-SPI Connector: 25-pin sub-D
DVB-SPI Input Level: LVDS



www.alitronika.com

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1. GENERAL DESCRIPTION

A member of Alitronika's state of art digital video interfacing products. The AT780PCI is a PCI based interface device suitable for Recording, Playing and Analyzing of DVB Transport Streams.

2. BLOCK DIAGRAM

FIG4 illustrates the block diagram of the AT780PCI device. The device communicates with the PC via thePCI interface device. On the input side, the RF signal is demodulated and then de-coded before entering the PC via the main controller and the PCI bus as Full TS files. On the output side, the MPEG-II transport streams enter the device via the PCI interface device. The AT660PCI then transmits the transport streams according to the settings provided by the application software. The data is 8b/10b encoded for DVB-ASI signals before it is serialized and transmitted via the BNC output connectors.



3. EXTERNAL INTERFACES

The external interfaces for the AT780PCI are shown.two75 Ohms IEC type connectors for the RF input & Loop Through, 2 BNC connectors for the DVB-ASI outputs and a box header (seen in bluein the picture) for DVB-SPI output.The Unit is supplied with a flat cable/D-type/ bracket combination for access to the DVB-SPI port.

The LED in the Left of the unit function as follows:

OFF = Power is off/ device not activated Flashing (Red) = Play /Record not activated – Error condition ON (Green) = Normal operational condition In Record mode this LED indicates that a Carrier has been detected and the device has locked to incoming Signal



4. APPLICATION

Targeted for digital video professionals, sophisticated end users and OEMs the AT780PCI is an ideal solution for a number of applications such as, development tools, universal interface for MPEG-II Transport Stream Playing and Recording, video on demand s

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