

AD_RG1_PCI

> Time Code PCI Card

Benefits

Reliable Time Code

Built in processor

**Plug & play in
Medialon Manager
Software**

Mini XLR included

Applications

**Synchronize Show
Control to Time Code**

**Generate Time Code
to sync audio, video**

**Generate Time Code
to synchronize
lighting desk**

**Convert / offset Time
Code**

The **AD_RG1_PCI** is a Time Code LTC reader and generator board that fits into a PCI slot in the Medialon Show Control Machine Pro or a regular PC.

Thanks to its own microprocessor, it does not load the host microprocessor. It can either sync to video or free run with very high precision.

The AD_RG1_PCI can read and generate LTC simultaneously.

Part Number

AD_RG1_PCI Time Code Reader / Generator Card for PCI slots

LTC Input

Connector Type RCA Jack (standard)
Mini-XLR (m) (standard)
Isolated BNC (f) (optional)

Impedance 20kohms typical (differential)

Input Level 100mVpp to 20Vpp

DC on Input +1.0V maximum

CMRR >34dB @ 50Hz and 60Hz

Speed Range 1/30x to 80x play speed (signal quality dependent)

Bits Read All (time, user, and embedded)

Standards SMPTE and EBU and FILM (automatically selected)

LTC Output

Connector Type RCA Jack (standard)
Mini-XLR (m) (standard)
BNC (f) (optional)

Impedance 100ohms typical (unbalanced)

Output Level 1.5Vpp typical (0dBm)

DC on Output +50mV maximum

Rise/Fall Times 25us (SMPTE) or 50us (EBU and FILM) (typical, 10%-90%)

Bits Generated All time, user, embedded and sync bits, with parity

Standards SMPTE and EBU and FILM (selected by VIDEO or LTC reference or by software)

Freerun Error +0.004% (4 frames/hour) (after 5 minutes training)

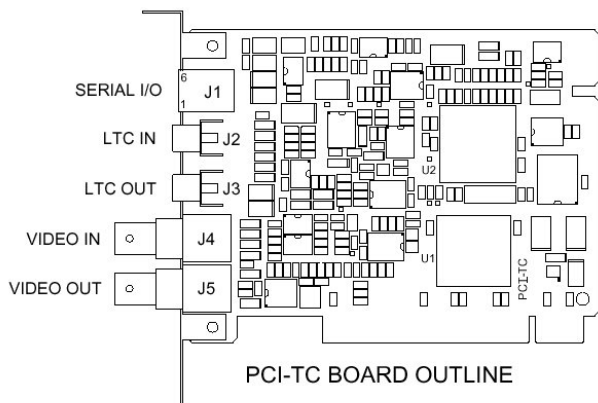
Phasing Error +20us maximum (meets SMPTE/EBU specs)

Accessories

Included: Cables

AD_RG1_PCI Related Product

Optional: Show Control Machine Pro (GD_SCMPRO)



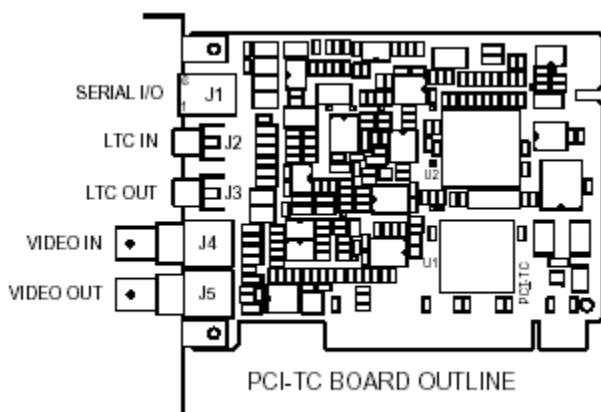
Hardware Installation

Power down your desktop computer, open the case and locate an empty PCI slot (one of the short ones in white/beige color).

Remove the slot cover bracket.

Unpack the PCI-TC board and remove the enclosed PCI controller card from the antistatic bag.

Note: standard precautions against static discharge should be taken when handling the card. Install the card in the empty slot, fastening properly with the mounting screw. Always use a fixing screw to fix the card, to avoid card damage. Close back the desktop computer, power on and proceed with software installation as described in the next section. Here is an outline drawing of a fully stuffed PCI-TC board. This will help you locate the various input and output connectors:



Software Driver Installation

(Instructions for Windows 2000®)

The installation will be performed automatically. Insert the driver disk into drive A: and follow the on-screen instructions.

During boot, Windows detects a new Multimedia device and it configures it with the standard Plug-and-Play process (using a configuration information file (.INF) and a driver file (.SYS).

When prompted by Windows configuration manager, insert the driver floppy and continue the installation procedure.

Follow the standard steps just taking care to always specify the floppy (A:) as the source unit.

Click "Finish" to complete the driver installation. Rebooting the machine is not required.

If Medialon Manager Software is not installed, proceed with the installation of the software package.

Medialon MxM Installation

Select Adrienne Time Code in the MxM Setup. No specific installation is needed with the MxM.

Note: Refer to the MxM Help for Device creation and Commands

Troubleshooting Installation

This section provides help for troubleshooting problems encountered in ADRIENNE PCI-TC (AD_RG1_PCI) board installation and configuration process.

The most common problems are resolved following these steps:

- Make sure the card is properly seated in the PCI slot and the screw is fastened.
- Make sure the drivers are properly installed..
- Verify that the card is properly configured using Windows Device Manager. To get to the Device Manager, follow "Start" > "Settings" > "Control Panel" > "System" > "System Properties" > "Device Manager".

If a conflict is present, try to uninstall, power down, power back on and reconfigure that card.

If this fails, refer to the MEDIALON support (as indicated in the final section of this manual).

Diagnostic Utility Program

To run the test/demo program, just place the PCI-TC diskette into your computer's "A:" drive (probably the only floppy drive in your computer), then turn on or reset your computer.

The computer will boot up using a DOS-like program which we designed.

When prompted to do so, press the "1" key to select the test/demo program, wait a bit, then press the "1" key again to select the "normal test/demo program" (not diagnostics).

The test/demo program will let both you and us know quickly if your board is installed and working properly inside your PC. It will say "no PCI-TC board found" or some other error message if there is something wrong with your PC or your PCI-TC board.

If you do get an error message, turn off your computer's power, remove the top cover, remove the board from the PC, gently clean its gold plated edge connector contacts with a soft eraser, then plug the board back into the same slot (or better yet, a different slot).

If you still get an error message, the board will probably have to be returned to the factory for repair(s). Very rarely does this happen.

If everything is working fine with the test/demo program (on the diskette), but you cannot get your application program to work properly, at least you know by now that the board itself is OK, and that the external signal sources and cables are OK.

Medialon Support

For any problem with the installation of the AD_RG1_PCI Card, please use MEDIALON Support Service sending an email to support@medialon.com

Please make sure you indicate the following minimal set of information:

- Version of Medialon Manager Software used
- Version of Adrienne Time Code MxM used
- Model and serial number of the Adrienne Time Code card
- Brand and model of the PC
- Version of the Windows operating system (reported in the "Start" > "Settings" > "Control Panel" > "System" > "System Properties" > "General" window also reachable right clicking on "My Computer" and selecting "Properties")
- Is Windows "Device Manager" reporting configuration problems?
- Was the card tested on another PC?

For updated information please refer to our website, which is freely available at www.medialon.com where you will also find all updated Medialon Manager Software MxMs.

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