MIO-3150 Mini-PCI interface to video capture module Startup Manual

Introduction

Advantech introduces its new MIO module, MIO-3150 with Mini-PCI interface to video capture module.Supports analog TV output applications like CCTV surveillance system.

Ruggedly designed for high reliability surveillance systems in transport, aviation and defense applications.

Packing list

Before you begin installing your card, please make sure that the following materials have been shipped:

- 1 MIO-3150 Mini-PCI interface to video capture module
- 1 Startup manual
- 1 CD ROM for MIO-3150 Driver
- 2 Cables
- 1 WIRE 6P/4P/4P 1.25mm 13cm p/n: 1700002047
- 1 WIRE 4P power/4P 1.25mm 10cm p/n: 1700002049

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

Note 1: Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: www.adobe.com/products/acrobat/readstep2.html(Acrobat is a trademark of Adobe.)

Specifications

- Supports NTSC/PAL/SECAM video decoding
- Multiple composite and S-video inputs
- Fully PCI Rev. 2.1 compliant
- Auxiliary GPIO port to support external devices
- Multiple YCbCr and RGB pixel formats supported on output

Mechanical and Environmental

- **Power requirement:** +12V DC for CCD from power CONN cable; +3.3V DC from power mother-board[miniPCI slot]
- Size: 44.6mm x 59.75mm
- **Operating Temperature:** 32°F ~ 140°F (0°C ~ 60°C)
- **OS support:** Windows 2000, XP, CE
- **API:**Simple User Interface

For more information on this and other Advantech products, please visit our website at:

http://www.advantech.com

http://www.advantech.com/eplatform

For technical support and service, please visit our support website at:

http://www.advantech.com/support

This manual is for the MIO-3150 series Rev. A1.

Part No.2006315000 1st Edition
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MIO-3150 Mini-PCI Interface to Video Capture Module

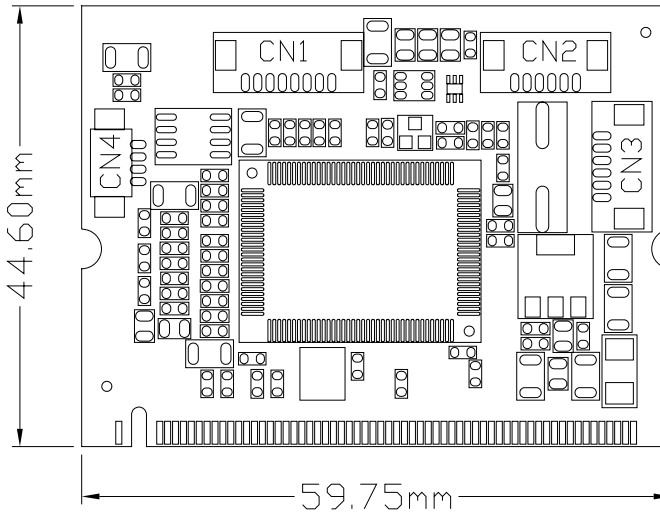
Jumpers & Connectors

The table below lists the function of each of the jumpers and connectors

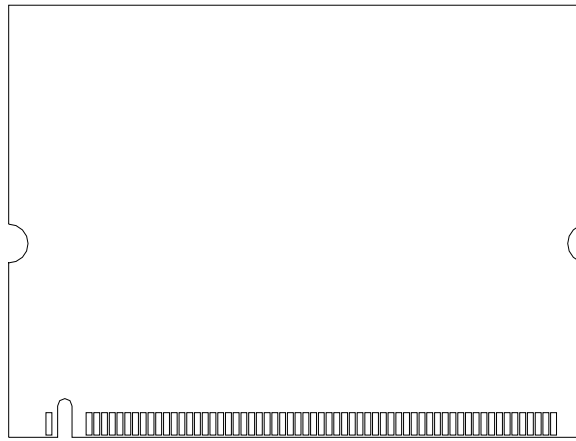
VIDEO IN Connector (CN2)			
Pin	Signal	Pin	Signal
1	CCD_VCC	2	GND
3	CCD1	4	GND_SIGNAL
5	VIDEO2(CCD2)	6	GND_SIGNAL

+12V Power In Connector (CN4)			
Pin	Signal	Pin	Signal
1	+12V	2	+12V
3	GND	4	GND

Board Layout



Mechanical Drawing (component side)



Mechanical Drawing (solder side)

FCC

This device complies with the requirements in part 15 of the FCC rules: Operation is subject to the following two conditions:
1.This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this device in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense. The user is advised that any equipment changes or modifications not expressly approved by the party responsible for compliance would void the compliance to FCC regulations and therefore, the user's authority to operate the equipment.

Caution!

There is a danger of a new battery exploding if it is incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Achtung!