

## PCI Express Superimpose Module NTSC Input/Output



### Overview

This product, an NTSC standard color-video capture product for PCI-based systems, provides one input channel and one output channel for analog composite signals and can superimpose image data on the board to input image signals and output the superimposed image signals.

Captured images can be transferred to the computer memory by using the bus master transfer without imposing a load on the computer.

### Features

#### ■ Image Superimpose

Superimpose image data on the board to input video signals and output superimposed video signals. Types of superimpose: overwrite, addition, subtraction, XOR, raw (no-superimpose)

#### ■ Superimpose of Data/Time

Automatically superimpose strings of date and time at any display position

#### ■ Image Superimpose format

Capture and superimpose images with resolution of 640Hx480V, RGB 24-bit or BGR 24-bit format

#### ■ Image Capture format

Resolution: 640Hx480V, 320Hx240V, 160Hx120V

Format: RGB 32-bit, RGB 24-bit, BGR 24-bit, RGB 16-bit, RGB 15-bit, Monochrome 8-bit, R 8-bit, G 8-bit, B 8-bit

#### ■ Image bus master transfer

Fast data transfer of images by using bus master transfer to the computer main memory without imposing a load to the computer

■ **Digital I/O signals (+5 Vdc to +48 Vdc)**

This board has bi-directional digital I/O signals (8 channels) for FA applications. They can be used for external device control and/or digital input signals as triggers. The input signal voltage range is +5 Vdc to +48 Vdc.

■ **External Interrupt Input**

All of the eight digital input channels can be used as external interrupt input signals.

■ **Timer Functions**

A 24-bit timer counter counts every 1µs, can be used as an interval timer.

**Specifications**

<b>Model type</b>	<b>PEX-H550411</b>																							
<b>Bus requirements</b>	PCI Express™ Base Specification Rev. 1.0a x1																							
<b>Number of slots</b>	1 slot																							
<b>Memory size</b>	4KB + 4KB + 8192 bytes + 8192 bytes																							
<b>Dimensions</b>	165.00 (D) x 106.65 (H) [mm]																							
<b>Weight</b>	175 g																							
<b>Power consumption</b>	+3.3 Vdc (+/-9 %): 0.2 A (typ.) +12 Vdc (+/-8 %): 0.6 A (typ.)																							
<b>Environmental conditions</b>	Operating temperature: 0 deg C to 50 deg C Relative humidity: 20% to 90% (non-condensing)																							
<b>Connectors</b>	CN1 : BNC (Black) CN2 : BNC (White) CN3 : 9-pin D-sub (female)																							
	On-board connector CN1 : 5415634-1 (TE Connectivity) or equivalent CN2 : 5415634-2 (TE Connectivity) or equivalent CN3: RDED-9S-LNA (4-40) (Hirose Electric Co., Ltd.) or equivalent																							
<b>Input signal</b>	NTSC standard analog composite signal x 1 channel																							
<b>Output signal</b>	NTSC standard analog composite signal x 1 channel																							
<b>Resolutions</b>	Superimpose: 640 x 480 pixels (H x V)																							
<b>Formats</b>	RGB 24 bits																							
<b>Digital I/O</b>	Digital Input: 8 / Digital Output: 8																							
<b>OS</b>	<table border="1"> <tr> <td>Windows 7 x64</td> <td>Windows 7 x32</td> <td>Windows 2008 x64</td> <td>Windows 2008 x32</td> <td>Windows Vista x64</td> <td>Windows Vista x32</td> <td>Windows XP x64</td> <td>Windows XP x32</td> </tr> <tr> <td>Windows Embedded Standard 7</td> <td>Windows Embedded Standard 2009</td> <td>Windows 2003 x64</td> <td>Windows 2003 x32</td> <td>Windows 2000</td> <td>Linux x32</td> <td colspan="2"></td> </tr> </table>								Windows 7 x64	Windows 7 x32	Windows 2008 x64	Windows 2008 x32	Windows Vista x64	Windows Vista x32	Windows XP x64	Windows XP x32	Windows Embedded Standard 7	Windows Embedded Standard 2009	Windows 2003 x64	Windows 2003 x32	Windows 2000	Linux x32		
	Windows 7 x64	Windows 7 x32	Windows 2008 x64	Windows 2008 x32	Windows Vista x64	Windows Vista x32	Windows XP x64	Windows XP x32																
Windows Embedded Standard 7	Windows Embedded Standard 2009	Windows 2003 x64	Windows 2003 x32	Windows 2000	Linux x32																			



Interface Amita Solutions, Inc.  
E-mail: [sales@amitasol.com](mailto:sales@amitasol.com)  
Website: <http://www.interface-amita.com>