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**F3G  
FUSION**

**Option** 



**Analog Audio/Video Options (+AN•••• Option Codes)**

# ***Manual Supplement***

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OPT-F3GAN-MS (V1.0)

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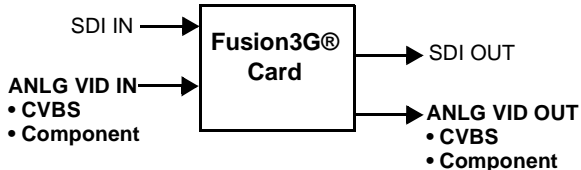
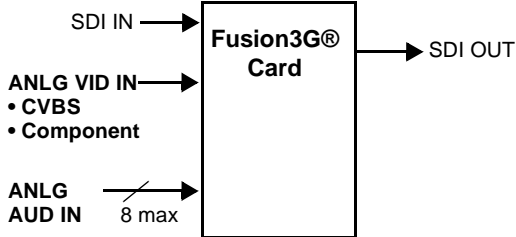
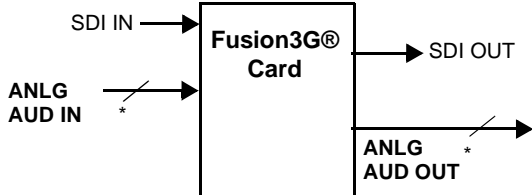
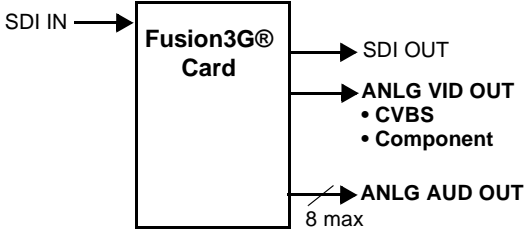
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## Overview

This manual supplement provides descriptions and operating instruction for the +AN--- options available as an option on new Cobalt® FUSION3G® (9900-Series) cards, which are options that add analog audio/video inputs and outputs. Table 1 lists the various available analog option packages.

**Note:** +AN--- options are available only as new purchase options and cannot be added as a field-installed option.

**Table 1 Fusion3G® Analog Options Descriptions**

Option Code	Option Name	Description	Option I/O Diagram
<b>+ANVIO</b>	Universal Analog Video Inputs/Outputs	Provides an analog video input and output (CVBS, component, RGB (sync on green))	
<b>+ANAVI</b>	Analog Audio and Universal Video Inputs	Provides an analog video input (CVBS, component, RGB (sync on green)), and up to eight channels of balanced analog audio inputs	
<b>+ANAIO</b>	Analog Audio Inputs/Outputs	Provides up to eight channels (total) of balanced analog audio, with the eight channels selectable as input or output	 <p>** max channels between inputs and outputs</p>
<b>+ANAVO</b>	Analog Audio and Universal Video Outputs	Provides an analog video output (CVBS, component, RGB (sync on green)), and up to eight channels of balanced analog audio outputs	

# Installation and Setup

## Installing a Rear Module

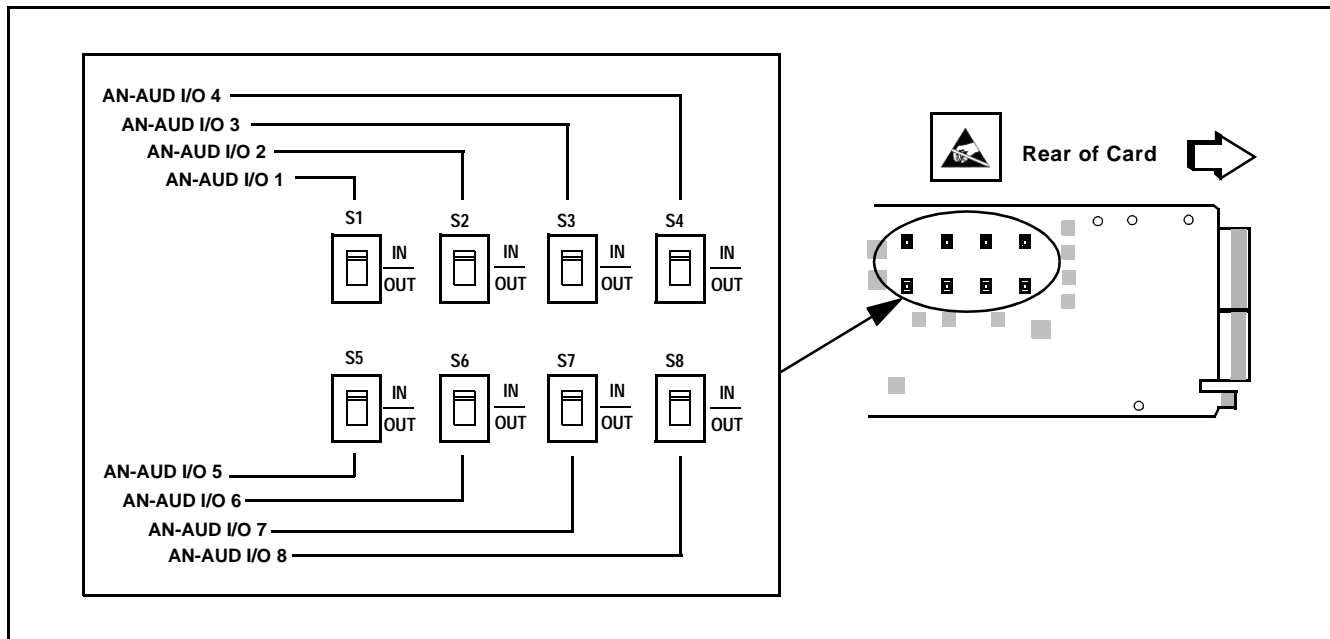
Refer to Chapter 2, “Installation and Setup” in the card’s Product Manual for descriptions and installation of Rear I/O Modules that support analog audio and/or video.

## Setting I/O Switches for Analog Audio (1-8) Ports

**Notes:** All switches are set as **inputs** as factory default.

Analog audio options provide for eight analog audio channel IN or OUT, with each channel configurable as an input or output using DIP switches S1 thru S8). The switches are located on the option piggyback card.

Note switch S1 thru S8 locations for **AN-AUD I/O 1** thru **AN-AUD I/O 8** shown in Figure 1. For port to be used as an **output**, set switch to down position as shown in Figure 1.




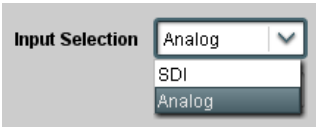
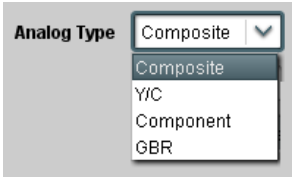
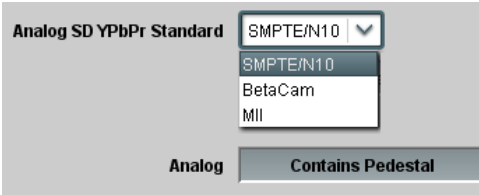

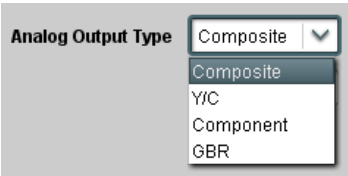
**Figure 1 AN-AUD I/O (1-8) Mode Switches**

# Analog Video/Audio Controls and Examples

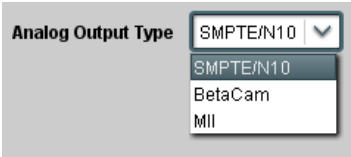

## Video Controls

Table 2 individually lists and describes typical analog **video** controls available using DashBoard™ for cards equipped with the +AN--- options.

**Table 2** +AN Option Video Controls List and Descriptions

	<p>Provides controls to select from SDI or analog video inputs.</p>
<p>• <b>Input Video Select Control</b></p> 	<p>Sets the input video to exclusively use either of the two video inputs as shown.</p>
<p>• <b>Analog Video Input Type Control</b></p> 	<p>When receiving analog video input, sets the card to accept received input signal from choices shown.</p> <p><b>Note:</b> Input type must be appropriately set for the card to correctly process the received input.</p>
<p>• <b>SD Analog Input Signal Controls</b></p> 	<p>When receiving analog YPbPr SD video input, <b>Standard</b> drop-down sets the card input video type to accept received input signal from choices shown.</p> <p><b>Analog</b> button sets the card input to match analog source containing or not containing 7.5 IRE pedestal.</p> <p><b>Note:</b> Input type must be appropriately set for the card to correctly process the received input.</p>
	<p>Provides controls to control analog video output as described below.</p>
<p>• <b>Analog Video Output Type Control</b></p> 	<p>Sets the card analog video output from choices shown.</p>

**Table 2 +AN Option Video Controls List and Descriptions — continued**

<p>• <b>Analog Video YPbPr Output Type Control</b></p> 	<p>When card is set to output component output, sets the card analog video output from choices shown.</p>
<p>• <b>SD Analog Output Pedestal Insert Control</b></p> 	<ul style="list-style-type: none"> <li>• <b>On</b> adds 7.5 IRE pedestal to SD analog output video.</li> <li>• <b>Off</b> removes 7.5 IRE pedestal from SD analog output video.</li> </ul>

### Audio Controls

Analog audio inputs and outputs to and from the card are controlled just as any other audio input/output used with the card. Refer to “Function Submenu List and Descriptions” in Chapter 3, Operating Instructions in the card Product Manual. Analog audio outputs can use as sources any PCM audio source within the card (including embedded, AES, and DSP source channels such as upmixed and loudness processed sources).





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