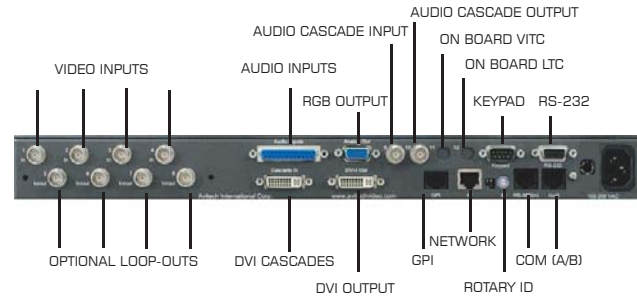


# MEDIA COMMAND CENTER

## MCC-8004 Multi-Image Video Processing Module



### COMPOSITE ANALOG

#### MCC-8004a

- Input: 4 auto-detect composite video (PAL / NTSC)

#### MCC-8004aL

- MCC-8004a with 4 passive loop outs

#### MCC-8004aA

- MCC-8004a with 4 pairs of analog stereo audio

#### MCC-8004aAL

- MCC-8004aA with 4 passive loop outs

### SD-SDI

#### MCC-8004d

- Input: 4 auto-detect SD-SDI / composite video (PAL / NTSC)

#### MCC-8004dL

- MCC-8004d with 4 active SDI loop outs

#### MCC-8004dA

- MCC-8004d with 4 pairs of analog stereo audio

#### MCC-8004dAL

- MCC-8004dA with 4 active SDI loop outs

#### MCC-8004dD

- MCC-8004d with up to 4 AES / EBU audio

#### MCC-8004dDL

- MCC-8004dD with 4 active SDI loop outs

#### MCC-8004dE

- MCC-8004d with 32 channels of embedded audio

#### MCC-8004dEL

- MCC-8004dE with 4 active SDI loop outs

### PRODUCTION SERIES

#### MCC-8004P

- Input: 4 auto-detect SD-SDI / composite video

#### MCC-8004PL

- MCC-8004P with 4 SDI active loop outs

#### MCC-8004PA

- MCC-8004P with 4 pairs of analog stereo audio

#### MCC-8004PAL

- MCC-8004PA with 4 active SDI loop outs

#### MCC-8004PD

- MCC-8004P with up to 4 AES / EBU audio

#### MCC-8004PDL

- MCC-8004PD with 4 active SDI loop outs

#### MCC-8004PE

- MCC-8004P with 32 channels of embedded audio

#### MCC-8004PEL

- MCC-8004PE with 4 active SDI loop outs

### UNIVERSAL SERIES

#### MCC-8004U

- Input: 4 auto-detect HD-SDI, SD-SDI / composite video

#### MCC-8004UL

- MCC-8004U with 4 active HD / SD-SDI loop outs

#### MCC-8004UA

- MCC-8004U with 4 pairs of analog stereo audio

#### MCC-8004UAL

- MCC-8004UA with 4 active HD / SD-SDI loop outs

#### MCC-8004UD

- MCC-8004U with up to 4 AES / EBU audio

#### MCC-8004UDL

- MCC-8004UD with 4 active HD / SD-SDI loop outs

#### MCC-8004UE

- MCC-8004U with 32 channels of embedded audio

#### MCC-8004UEL

- MCC-8004UE with 4 active HD / SD-SDI loop outs

### General Specifications

- Dimension: 1 RU, 19" W x 10" D, 48.3cm W x 25.4cm D
- Weight: 8 lbs, 3.6 Kgs.
- Power: <30W
- Communication via IP or RS-232

- Input: Auto-detect HD / SD-SDI / composite (PAL/NTSC)
- Output Resolution up to 1600 x 1200 / 1920 x 1080 / 1920 x 1200
- Up to 26 internal presets
- On-screen labels, borders, alarms
- Built-in digital clock (supports NTP)
- Optional Audio Meters for Embedded Audio with phase AES (balanced / unbalanced), analog audio

- 8 GPI ports for tally or alarms
- Auto-detect aspect ratio 16x9 and 4x3
- Supports Avitech ASCII Protocol (AAP)
- Supports direct TSL Tally / UMD Interface
- Can be cascaded with VCC-8000, ACC-8000
- Compatible with both Cosmos and Galaxy Control Software
- Optional Redundant Power Supply

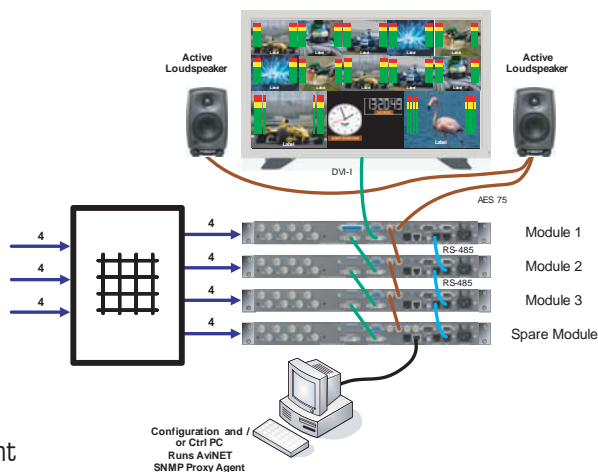
# MEDIA COMMAND CENTER

## MCC-8004 Multi-Image Video Processing Module

### AVITECH'S UNIQUE OPEN & DISTRIBUTED MODULAR ARCHITECTURE

#### MANAGING MODULE FAILURE

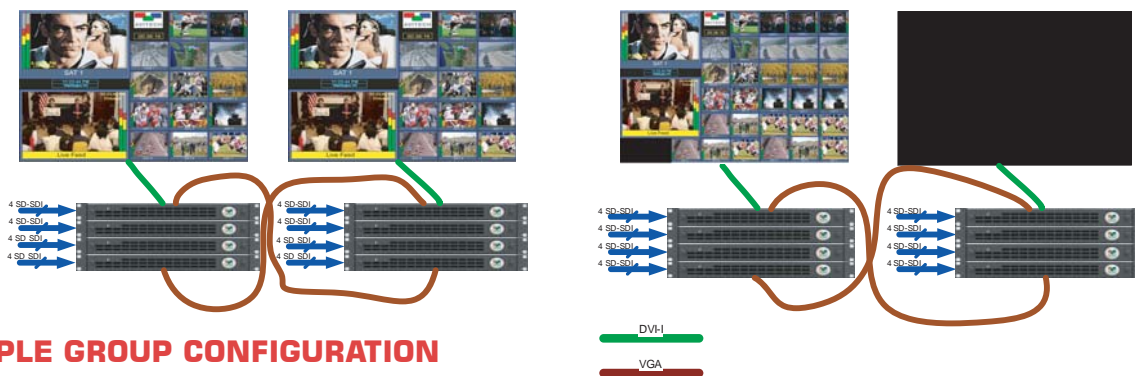
Each module is autonomous -- In case one module is lost, only the corresponding 4 input signals are lost. Plus, the analog part of the cascaded DVI-I signals are automatically bypassed (internal relays). The control cascade is RS-485, therefore control connection is still established. This strategy requires that the display has a DVI-I input with automatic change-over in between the digital and analog version of the signal -- Alternatively, a monitor with a separate DVI-D and VGA inputs with automatic input signal detection and change-over would also do the job. The drawing to the right illustrates that a spare module can be added for redundancy. If the corresponding 4 input signals are routed to the spare module and a corresponding Avitech configuration preset is recalled, then a module failure will not cause a loss of displayed sources. Status of modules is available through GPI contacts or SNMP proxy agent to a Network Management system that based on the availability of scripts would recall router configuration salvos and Avitech presets.



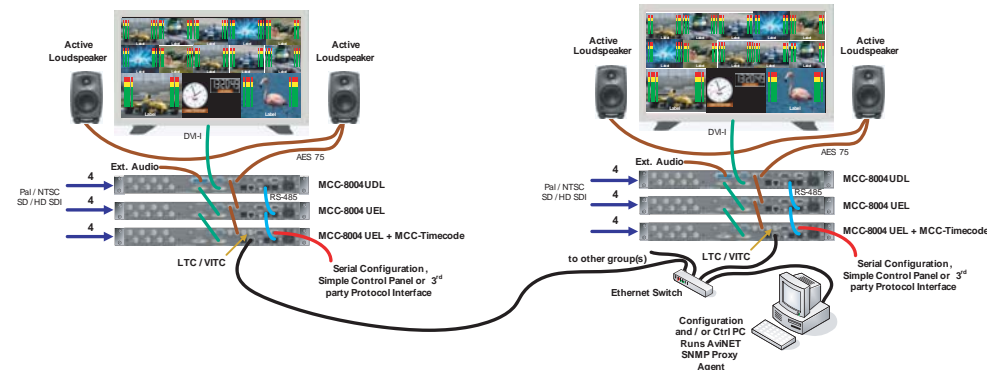
#### MANAGING DISPLAY FAILURE

The DVI output of the last module of each group is feeding the monitor. The VGA output of the last module of each group is also connected to the background input of the first module of the other group. During normal operation the input of the first module of each group is disabled (switched to default black background)

In case one monitor fails, a preset combining all the inputs of both groups can be recalled (e.g. using the SCP panel) through the looping cable. In case the other monitor fails, another preset addressing this situation can be recalled. The same concept can be extended to more than two groups.



#### MULTIPLE GROUP CONFIGURATION



# MEDIA COMMAND CENTER

## MCC-8004 Multi-Image Video Processing Module

### ROUTING & PRODUCTION SWITCHER, AND TALLY / UMD SUPPORT & INTERFACES

Avitech Multiviewers support a variety of routing switchers, production switchers, tally management systems, as well as dynamic Tally / UMD interface support for the following manufacturers:

**Routing Switchers:**

Fjord Media, Grass Valley, Harris Broadcast (Leitch), Network Electronics, QuStream (Pesa), Pro-Bel, and Utah Scientific.

**Production Switchers:**

Grass Valley, Ross Video, Snell & Wilcox, and Sony Broadcast & Professional

**Tally Management Systems:**

Grass Valley Andromeda, ImageVideo, OmniBus, and TSL

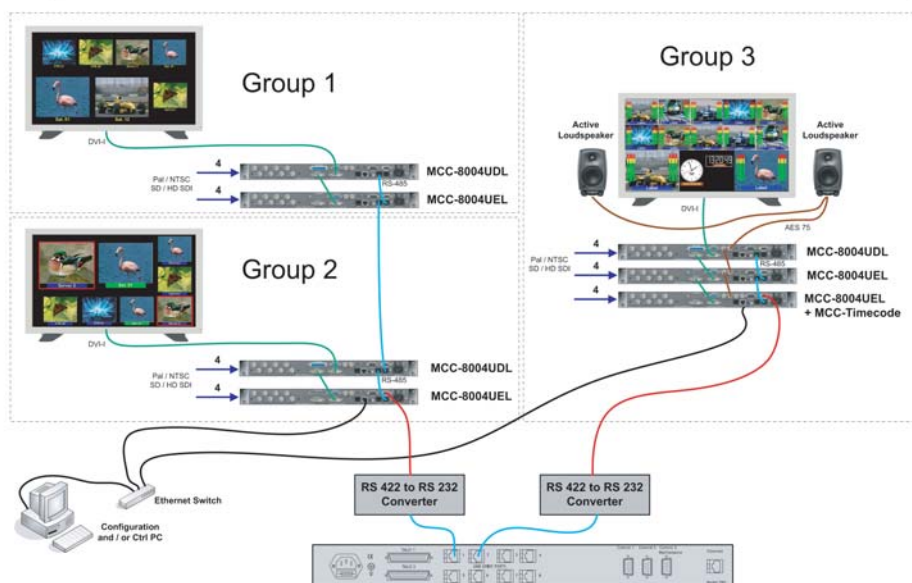
**Example:** Dynamic UMD and Tally Using TSL's UMD Controller

Avitech's MCC-8004 Multiviewer architecture is based on four input modules. Groups of modules are cascaded and the output of the last module is connected to the monitor.

Each module includes two RS-485 ports that are used for the control loop, an Ethernet port to connect to a PC for configuration and control, and one RS-232 port.

One purpose of the RS-232 port is to provide a TSL UMD & Tally interface. One TSL port of the TSL controller is required for connecting to the first module of each set of modules (maximum of fifteen) cascaded together (control loop).

Dynamic UMD and Tally For Avitech MCC Family of Multiviewers -- Using TSL's Tally / UMD Controller



# MEDIA COMMAND CENTER

## MCC-8004 Multi-Image Video Processing Module

### INTEGRATED ON-SCREEN DISPLAY (OSD)



#### AUDIO METERS:

8 embedded audio meters per video input, offering transparency and audio phase display

#### TALLY:

4 levels of Serial Tally, 2 levels of GPI Tally

#### ALARMS:

Loss of video, Loss of audio, Video-no-motion, Audio too high, Audio too low, VBI data such as; loss of Closed Caption, loss of VChip

### CLOCKS, COUNTERS & GRAPHICAL ELEMENTS



One analog / digital clock or logo per module.  
The clock can either be free run or synchronized with time code input.  
Counters can be up or down

### UNIVERSAL LANGUAGE SUPPORT



Including Asian and European character sets

### START WITH A QUAD-SPLIT, AND GROW YOUR SYSTEM BY ADDING MORE MODULES



### HEADQUARTERS

Avitech International Corporation  
15333 NE 90th Street  
Redmond, WA 98052-3561  
USA  
Phone: +1 (425) 885 3863  
Toll Free: +1 (877) AVITECH (284-8324)  
Fax: +1 (425) 885-4726  
E-Mail: [info@avitechvideo.com](mailto:info@avitechvideo.com)  
Press & Media: Delamere Marketing  
[admin@delameremarketing.com](mailto:admin@delameremarketing.com)

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