

## DESCRIPTION

PowerVu Cue Triggering is a powerful and flexible solution for automating the insertion and synchronization of commercial messages into video programming. Cueing is typically used for the remote operation of VTR and/or other commercial insertion equipment located at a remote site such as a cable headend. A PowerVu receiver generates the cueing and triggering control for this equipment. Cue triggering support is provided for the PowerVu Commercial, Headend and Business Satellite Receivers. Uplink interfacing for remote cueing control is available via the Cue Trigger I/O cards serial port or 8-bit parallel port. These interfaces can be connected to a PC workstation or terminal, or to other equipment such as a VITC decoder.

### *Cue Triggering at the PowerVu Uplink*

PowerVu uplink support for cue triggering is provided by the optional Model D9783 Cue Trigger I/O card. This I/O card operates with the Model D9787 MPEG-2 Video Encoder Card to provide a direct interface between the Model D9110 Digital Video Encoder and external equipment for commercial insertion.

The RS-232 serial port operates via specialized remote control commands to provide data I/O control and monitoring for externally-connected equipment. Information is transmitted synchronously as part of the compressed MPEG-2 video signal, appearing at the expansion port of the destination receiver.

The byte-wide parallel port provides eight input pairs for direct (relay) connection to equipment via two removable spring terminal blocks. Each input pair corresponds to one bit of the 8-bit control word, and is isolated from all other inputs, and from chassis power and ground. In addition, the assertion level of each port pin is selectable via PowerVu Command Centre (PCC) system software.

### *Cue Triggering on the Receiver*

The PowerVu family of receiver products supports up to four separate open collector outputs. The Model D9223 Commercial Satellite Receiver also supports four additional open collector outputs. Compatible operation of the receiver expansion port is supported by separate receiver remote control commands.

### *The PowerVu Advantage*

The PowerVu Model D9783 Cue Trigger I/O card solution ensures frame-level synchronization of the inserted commercial messages. Integrating cue triggering as part of your encoder configuration can substantially reduce overall system complexity and maintenance requirements.

Future availability is planned for integrating cue tones operability with cue triggering as a software and hardware enhancement.

### **For more information, contact**

Satellite Television Networks  
Scientific-Atlanta Canada Inc.  
120 Middlefield Road  
Scarborough, ON M1S 4M6  
(416) 299-6888 (phone)  
(416) 299-7145 (fax)

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Specifications and availability subject to change without notice.

# POWERVu<sup>fi</sup> CUE TRIGGERING

The figure below shows typical program or event cueing applications using both serial port (ref. A) and parallel port (ref. B) interface facilities provided by the Model D9783 Cue Triggering I/O card.

