

**TRIASYS  
TECHNOLOGIES  
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### Primary Level PCM Channel Monitor FOR TELECOMMUNICATIONS SIGNALS RECEPTION

#### Key Features

- 31 Selectable Voice Grade Channels outputs in a Single Unit
- 32 Tap Self Synchronous and Additive PRN/LRS decoding supported
- Level 1 De-multiplexing Programmable for Standard and Non-Standard formats
- Configuration stored for library recall of signals of interest
- 7500TR Compatible Level 1 Special Format File
- VGC audio output monitor
- Remote Control via LAN
- Window Remote GUI



TriaSys Technologies' VCM-7500 provides simultaneous voice channel monitoring for all channels within any E1 transmission. Non-standard framing and de-multiplexing can also be accommodated. Each voice grade channel (VGC) may be programmed for A-Law, Mu-Law, ADPCM, or CVSD decoding. The VCM-7500 can be programmed from the front panel or from any Windows based computer.

The VCM-7500 is rack mountable in 3.5 inch (2U) housing. Audio outputs from each VGC are available on BNC connectors on rear of housing. Multiple housing can be connected in series to provide additional channel output for ADPCM and CVSD formats. E1 CCITT (ITU) and T1 standards compatibility along with Non Standard Special Format capability.

Front Panel Speaker or 1/4" Jack with volume control for monitoring of selected channel received.

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### Model VCM 7500

### Performance Specifications

#### PCM TDM De-multiplexing

- Stored Programming: Pre Stored configurations for quick recall provided for: E1 and T1 formats.
- Manual Programming: Standard, or non-standard, PCM format can be programmed through the user friendly "Special Formats" GUI. These special formats can be stored to a library for quick recall to allow for:
  1. Overhead bit removal of framing bits, and any other stuffed bits
  2. Frame Alignment Synchronization (FAS) patterns greater than 128 bits, bits can be consecutively ordered or dispersed among frame
  3. First order format programming supports Super Frame Lengths of up to over 30,000 bits with a Maxim of 1016 Bit for Minor Frame Length
  4. Additive / Synchronous PRN/LRS decoding
  5. Self synchronous PRN/LRS decoding
  6. NRZ-M, -S and Data Invert programmable
  7. Programmable frame lock algorithm

#### Synchronous PRN

- Programmable up to 32 tap length and up to 31 rails for Maximum Length Sequences (MLS) and non MLS sequences both normal taps or inverted taps. Other formats also supported i.e. Intelsat IESS309 Decoding, V.35.

#### Additive PRN

Programmable setup to library storage for recall, to support additive PRN encoding based on framing synchronization pattern used, preset patterns and encoding frame length.

#### Voice Grade Channel Decode

- VGC decoding programmable for 8-bit A-LAW, Mu-LAW and Sign Magnitude, 2, 3, 4 and 5-bit ADPCM both A-LAW and Mu-LAW, 1 through 8-bit CVSD both military and telecom.VGC selection as either individual channel or position bit.

#### Ports

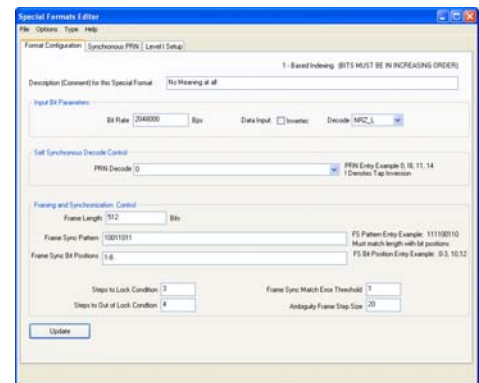
- Port Accepts TTL Data/Clock or HDB3 (E1) or AMI (T1)
- 31 Simultaneous VGC Audio Outputs
- Front Panel Monitor
- Daisy-chain multiple units for greater channel handling capacity

#### Rate

- PCM Bit Rate 56Kb/sec to 8Mbps (using TTL ports only)

#### Bit Decoding

Programmable bit decoding algorithms are provided for NRZ-L, NRZ-M, and NRZ-S



#### Built In Test

- Built-In Test provides a general functionality test capability.

#### Remote Control

- LAN remote control provided via supplied Windows GUI interface.

#### Mechanical and Power

- 2U 19" rack-mountable chassis (Slides optional)
- Front panel color is Federal Std 26492 Gray.
- 110-220 VAC Universal Power supply

Product Formerly a Signami / Signami DCS Product

### To Inquire or Order

For a demonstration, further information, or to contact a representative, please call 978.244.1060, or visit our website at [www.triasys.us](http://www.triasys.us).

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