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Model 9300/9301

Revision 1.0

Dual-channel Video Encoder/Decoder with M-JPEG or MPEG-2 Encode Scheme

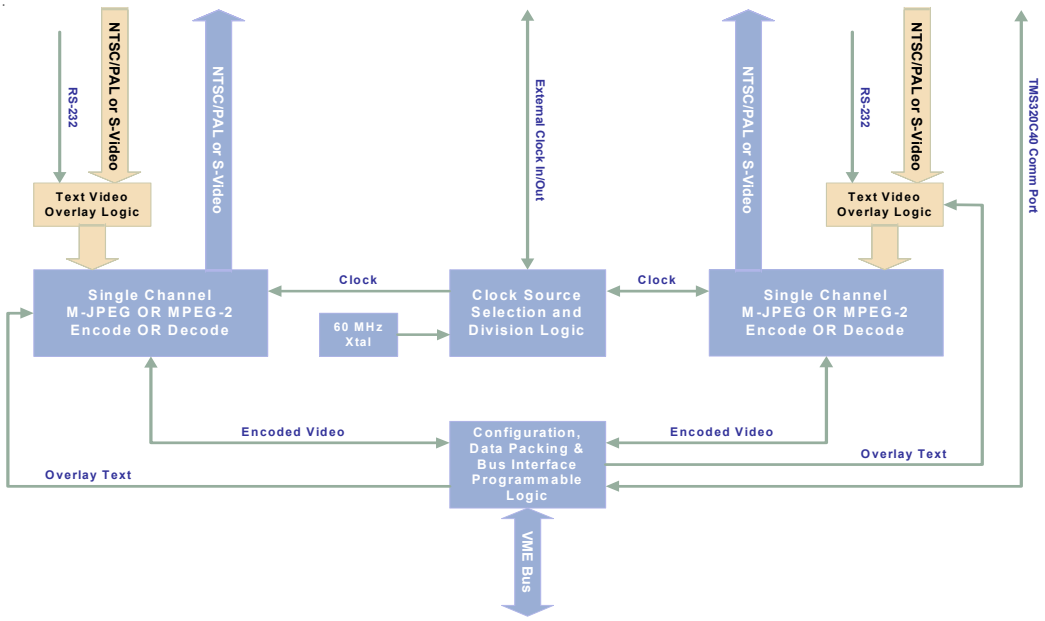


The Model 9300 and Model 9301 are video encode/decode cards that offer up to two channels of M-JPEG (9300) or MPEG-2 (9301) and the ability to combine graphics and alphanumerics with an RS–170 (black & white) or RS–170A (color) video signal.

Benefits

- Single-slot VME solution for high rate video encode/decode
- Alphaneumeric overlay
- Directly compatible with KSI and third party I/O and processor hardware
- Encoding and decoding provided by one board
- User has ability to supply a wide range of clocks, which determine frame rate and encode quality
- Flexibly programmable LEDs
- Simple, flexible configuration

Model 9300 Block Diagram



Features

- Two channels of color or black and white
- Compresses to 19.2 kbit/s with user control over quality and update rates (9300 only)
- VMEbus or 'C40 Comm Port interface
- On-the-fly programming of clock rates, data sources, and encoding and decoding rates
- Internal and external clocking
- C driver and source code provided
- RS–232-based text annotation is monitored or recorded in real time

Ordering Information

Model 9300 (+ option #)
Dual-channel M-JPEG NTSC/PAL Encoder/Decoder

Model 9301 (+ option #)
Dual-channe MPEG-2 NTSC/PAL Encoder/Decoder

Options

–001	Single Channel
–002	Y&C Channel 1 to Channel 2
–003	VME P2 Access
–004	Single Comm Port
–005	Encode Only
–006	Decode Only
–007	Baseboard Only
–008	One Codec Board

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Model 9300/9301

Compact, Versatile Encoding & Decoding

Specifications

Encode

Input

- Number of Channels: 2
- Nature of Input: NTSC (RS-17/RS-170a) or PAL
- Connector Style: SMA
- Electrical: 60Hz (50Hz); 1Vp-p

Output

- VMEbus Slave Interface (D16, D32)
- C40 Comm Port

Text Annotation

- Input to Front Panel RS-232 or VMEbus (A16, D8)
- ASCII with control character support
- Computer-annotated data monitored or recorded in real time

Decode

Output

- Number of Channels: 2 (optional single channel)
- Nature of Input: NTSC (RS-17/RS-170a) or PAL
- Output Scheme: Composite (single SMA) or Y/C (two SMAs)
- Connector Style: SMA
- Electrical: 60HZ (50Hz); 1Vp-p

Input

- VMEbus Slave Interface (D16, D32)
- C40 Comm Port

Front Panel Features

- One Input SMA and two Output SMA connections per channel
- RS-232 for configuration of encoder/decoder
- RS-232 for text annotation
- BNC for external clocking of encoder/decoder (9300 only)
- C40 comm ports for data I/O
- Three LED indicators for encode/decode and clock source

Encode/Decode Schemes

M-JPEG (Motion JPEG)—Model 9300

- Compression is a function of specified clock rates and resolution selection
- Clock Rate: 20 Mbits/second/channel down to 19.2 Kbits/second/channel
- Clock Source: 64 internal selections; external front-panel BNC (TTL)
- User-selectable Resolution
  - Horizontal
    - 560, 280 or 140 pixels/lines
  - Vertical (60Hz)
    - 240 lines/field digitized
    - 480 lines/frame
  - Vertical (50Hz)
    - 288 lines/field digitized
    - 576 lines/frame

MPEG-2—Model 9301

- Constant output rate of 20 Mbits/second/channel
- User-selectable Resolution
  - Horizontal
    - 560, 280 or 140 pixels/lines
  - Vertical (60Hz)
    - 240 lines/field digitized
    - 480 lines/frame
  - Vertical (50Hz)
    - 288 lines/field digitized
    - 576 lines/frame

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