

DAS6801+D

# Composite Analog A/V Decoder/Synchronizer/Embedder, Q-SEE™-Compliant

The DAS6801+D module for the 6800+™ modular processing platform converts video and audio from analog to digital, synchronizes the audio to the video, and then embeds the synchronized audio (four channels) into the SD-SDI video stream.

Integrated processing amps provide full processing of both video and audio signals. Output over fiber is available as a separate hardware option (OP+DAS+xxxD product versions).

The DAS6801+D module can be controlled manually via card-edge controls, or controlled and monitored via the CCS Navigator™ software application, HTTP web browser, or third-party SNMP-based control applications. The module is Q-SEE™-compliant, allowing for direct thumbnail monitoring when installed in an Ethernet-equipped 6800+ frame.

## Features

- 2D video decoder comes standard, upgradeable to 3D (available as a software license-key option)
- 12-bit, 4x oversampling of input video
- Video frame synchronization
- User-adjustable input video processing for black level, gain, hue, and saturation
- Time-base correction
- Integrated audio processing (gain, invert, mute, channel swap, channel sum)
- Accepts composite analog video or SD-SDI inputs, with user-selectable input priority (can be used for simple failover protection of input signal)
- Relay bypass on SDI input for protection against loss of module power
- Up to four SDI component digital video outputs
- Optional single-mode or CWDM fiber output (available as separate hardware option)
- Four analog audio inputs
- Two discrete AES audio connections (balanced or unbalanced), independently user-configurable as either inputs or outputs
- Audio embedding of four channels (two analog pairs, two AES pairs, or one pair of each)
- Integrated video and audio test signal generators
- RoHS-compliant

## Specifications

Specifications and designs are subject to change without notice

### SERIAL DIGITAL VIDEO INPUT

Number of Inputs	1
Connector	BNC (IEC 169-8)
Standards	SMPTE 259M-C, 270 Mb/s, 525/625 component
Impedance	75 ohms

### COMPOSITE ANALOG VIDEO INPUT

Number of Inputs	1
Connector	BNC (IEC 169-8)
Standards	NTSC (SMPTE 170M), PAL-B (ITU 624-2), PAL-M
Impedance	75 ohms

### REFERENCE VIDEO INPUT

Number of Inputs	1
Connector	BNC (IEC 169-8) (frame only)
Impedance	75 ohms

### ANALOG AUDIO INPUT

Number of Inputs	4
Connector	Weidmuller 22-pin
Input Analog Level	28 to 12 dBu (in 1 dB increment)

### AES UNBALANCED INPUT

Number of Inputs	2 (shared)
Connector	BNC (IEC 169-8)
Standards	AES3, SMPTE 276M
Impedance	75 ohms
Input Audio Rate	PCM input: 32 to 108 kHz
Bits	16, 20 or 24

### AES BALANCED INPUT

Number of Inputs	2 (shared)
Connector	Weidmuller 22-pin
Impedance	110 ohms $\pm$ 20% (0.1 to 6 MHz)
Input Audio Rate	PCM input: 32 to 108 kHz
Bits	16, 20 or 24

### SERIAL DIGITAL VIDEO OUTPUT

Number of Outputs	Up to 4 (some connections shared)
Standard	SMPTE 259M-C, 270 Mb/s, 525/625 component
Connector	BNC (IEC 169-8)
Impedance	75 ohms

### FIBER OPTIC VIDEO OUTPUT (OP+DAS+ VERSION ONLY)

Number of Outputs	1
Output Connector	SC
Wavelength	1310 nm and CWDM

### FIBER OPTIC VIDEO OUTPUT (OP+DAS+ VERSION ONLY)

Output Power	-7 dBm $\pm$ 1 dBm (1310 nm); 0 dBm $\pm$ 1 dBm (CWDM)
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### AES UNBALANCED OUTPUT

Number of Outputs	2 (shared)
Connector	BNC (IEC 169-8)
Impedance	75 ohms

### AES BALANCED OUTPUT

Number of Outputs	2 (shared)
Connector	Weidmuller 22-pin
Impedance	110 ohms $\pm$ 20% (0.1 to 6 MHz)
Power Consumption	12 W maximum

## Ordering Information

DAS6801+D	Composite video and analog audio decoder/synchronizer/embedder, with dual-slot back module, for use with FR6822+ series frames, Q-SEE-compliant
DAS68OPT+3D	Optional high-quality 3D decoder option for DAS6801+D (available as software license key)

## Images/Diagrams

