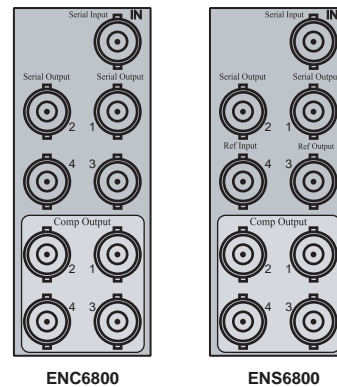
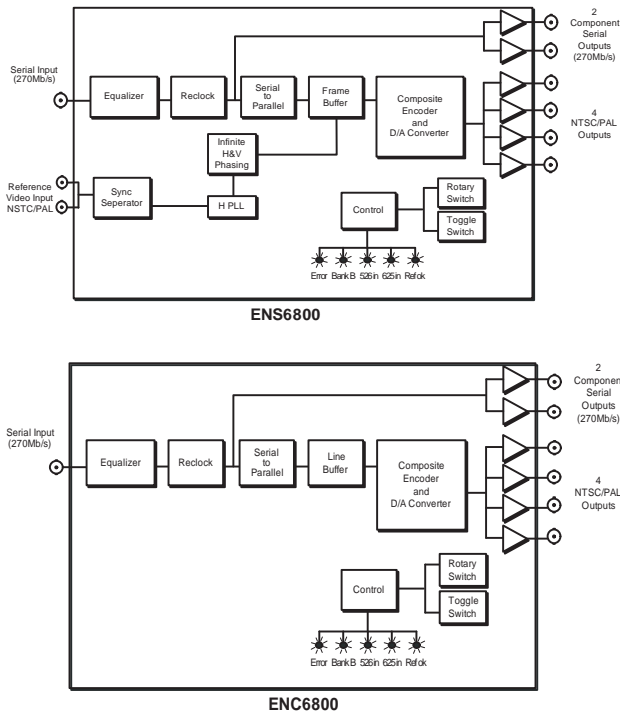


**Description:**

The ENC6800 is a broadcast quality encoder, converting NTSC/PAL 4:2:2 serial digital video into analog composite video and having four channels of analog composite video outputs. Utilizing the latest advances in encoding technology, the ENC6800 ensures the top quality video output. The precision digital encoding supports NTSC and PAL. The standard selection of output mode is automatic for 525 line NSTC or 625 line PAL standards. The overall accuracy of the encoder is 10-bit. The accuracy of output signal can be achieved through the provision of 4x oversampling and jitter removal.

**Features:**

- ▶ Automatic or manual switch for NTSC/PAL
- ▶ 4X oversampling
- ▶ 10-bit internal processing
- ▶ Four channels of analog composite video outputs
- ▶ External NSTC or PAL BB reference input
- ▶ Manifold Processing amplifier control
- ▶ Built-in 4:2:2 frame synchronizer (only applicable to ENS6800)



**Specifications :** specifications are subject to change without notice

**Serial Digital Video Input**

Standards	SMPTE 259M-C 270Mb/s, 525/625 component
Connector	BNC(IEC169-8)
Impedance	75 ohm
Return Loss	>18dB to clock frequency
Signal Level	800mV +/-10%
CMR Ratio	30Vp-p, to 60 Hz
Equalization	Automatic to 30dB, SMPTE 259M-C

**Serial Digital Video Output**

Number of Inputs	2
Standards	SMPTE 259M-C; 270Mb/s, 525/625 component
Connector	BNC per IEC169-8 standard
Impedance	75 ohm
Return Loss	>18dB to clock frequency
Signal Level	800mV +/-10%
DC Offset	0V+/-0.5V
Rise and Fall Time	0.4 to 0.7nS (20% to 80% of amplitude)
Overshoot	<10% of amplitude (all output terminated)
Jitter	<0.3nS

**Analog Video Output**

Number of Outputs	4
Standards	NTSC, PAL
Level	1Vp-p
Impedance	75 ohm
Connector	BNC( IEC169-8)
Return Loss	>40dB to 5.75MHz
Output Filter	Per CCIR601 standard
Differential Gain	0.7%
Differential Phase	0.5°
Group Delay	<10nS to 5.75MHz
S/N Ratio	>60dB to 5MHz
Quantization	10 bits

**Reference Input**

Signal Type	NSTC/PAL analog composite
Connector	BNC( IEC169-8)
Impedance	High loop through

### Power Consumption

Power 6.8W

Positive Rail

6.5W

Negative Rail

0.3W

### Ordering Information:

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ENC6800 4:2:2 serial digital video to NTSC/PAL encoder

ENS6800

4:2:2 serial digital video to NTSC/PAL encoder with frame synchronizer