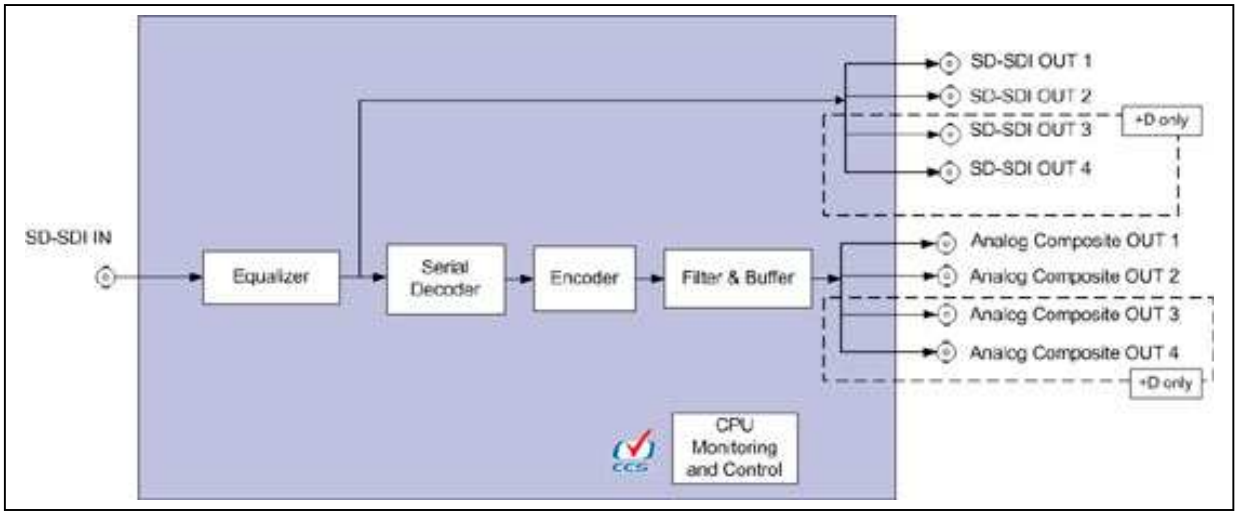
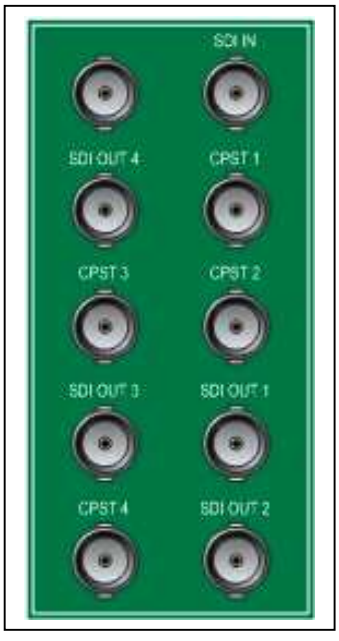
VSM6801+S/D

Designed for use with the 6800+™ modular core processing platform, the VSM6801+ SDI monitoring distribution amplifier (DA) combines the functions of an equalizing, reclocking serial DA and a 4:2:2 to NTSC/PAL converter on a single DA-sized card.
VSM6801+ modules can be controlled at the card-edge, or controlled and monitored via the CCS Navigator™ software application, HTTP Web browser (with QXFE series frames only), NUCLEUS™ hardware control panel or via third-party control applications using SNMP.

Features

- One SDI 4:2:2 input
- Single- and double-width backmodule versions available
  - VSM6801+S: provides two SDI and two analog composite outputs
  - VSM6801+D: provides four SDI and four analog composite outputs
- SMPTE 259M-C/270 Mb/s compatible
- Composite outputs selectable for NTSC/PAL-B/PAL-M
- Vertical blanking (pass/blank) – line 10 to 22 (NTSC); line 10 to 23 (PAL)
- V-blanking chroma, plus chroma on/off
- Mono burst on/off
- Supports card-edge and remote control of module (via CCS Navigator, Web browser and third-party SNMP-based control systems)





Specifications

Specifications and designs are subject to change without notice.

SDI Input

Format	4:2:2 serial component
Connector	BNC per IEC 169-8
Impedance	75 ohms
Return Loss	>18 dB from 5 to 270 MHz
Signal Level	800 mV ±10%
Maximum Input Cable	>984 ft (300 m)
CMRR	30 V pk-pk, up to 60 Hz

SDI Output

Number of Outputs	2 for VSM6801+S, 4 for VSM6801+D
Connector	BNC per IEC 169-8
Over Shoot	<10% (all outputs terminated)
Impedance	75 ohms
Return Loss	>18 dB to clock frequency
Signal Level	800 mV ±10%
Jitter	<0.2 UI
Rise/Fall Times	0.40 to 0.7 ns (20 to 80% amplitude)

Composite Analog Outputs

Standards	NTSC, PAL-M , PAL-B
Number of Outputs	2 for VSM6801+S, 4 for VSM6801+D
Signal Level	1 V pk-pk nominal (±10% adjustable)
DC Offset	0 mV +/-14 mV (2 IRE)
Impedance	75 ohms
Return Loss	>40 dB to 5.75 MHz
Output Quantizing	10 bits (encoding inputs 8 bits)
Frequency Response	<±0.25 dB to 5 MHz
Differential Gain	<1.5%
Differential Phase	<1.2 deg
Signal to Noise	>54 dB RMS to 5 MHz

Power Consumption	<5 W