

# AFD6800+D

## HD/SD AFD/WSS Insertion Module



The AFD6800+D is a simple, low-cost active format description/wide screen signalling (AFD/WSS) insertion device for the 6800+™ modular core processing platform.

This module is ideal for applications in broadcast networks, as well as news, cable, post and mobile television production. The AFD6800+D adheres to the SMPTE 2016 standard for AFD and can be utilized by network affiliates as a basic SD or HD inserter.

### Features

- Inputs
  - One auto-sensing HD/SD input
  - VLI inserter for SD signals in addition to WSS for 625 signals
  - AFD/WSS/VI present monitor
  - Capability of passing VANC and HANC
- Outputs
  - Four AFD/WSS/VI inserted outputs
  - Two reclocked outputs
  - Output video signal processing
  - Capability of passing VANC and HANC
- Full CCS Navigator™ control and monitoring
- Card-edge and remote control via built in FR6822+QXFE web browser

### Specifications

*Specifications and designs are subject to change without notice*

VIDEO INPUT	
Number of input	1
Standard	SMPTE 292M HD-SDI and 259M-C SD-SDI
Connector	BNC (IEC 169-8)
Impedance	75 ohms
Return Loss	>18 dB, typical, from 5 to 1485 MHz HD-SDI mode >18 dB, typical to 270 MHz SD-SDI mode
Equalization	Adaptive cable equalization for up to 393 ft (120 m,) typical, of Belden 1694A coaxial cable for HD-SDI 753 ft (230 m), typical, of Belden 8281 coaxial cable for SD-SDI video

VIDEO INPUT	
Number of Outputs	2 reclocked, 4 AFD inserted
Standards	1080i (SMPTE 274M) at 25/29.97/30 Hz 1080p (SMPTE 274M) at 23.98/24/25/29.97/30Hz 720p (SMPTE 296M) at 50/59.94/60 Hz 525/625 (SMPTE 259M)
Connector	BNC (IEC 169-8)
Impedance	75 ohms
Return Loss	>18 dB, typical, from 5 to 1485 MHz HD-SDI mode >18 dB, typical, to 270 MHz SD-SDI mode

Signal Level	800 mV $\pm$ 10%
D.C. Offset	0 V $\pm$ 0.5 V
Rise and Fall Time	400 to 1500 ps (SD) <270 ps (HD)
Overshoot	<10% of amplitude
Jitter HD	Timing jitter: <1 UI (673 ps pk-pk) Alignment jitter: <0.2 UI (135 ps pk-pk)
Jitter SD	<0.2 UI

#### POWER AND TEMPERATURE

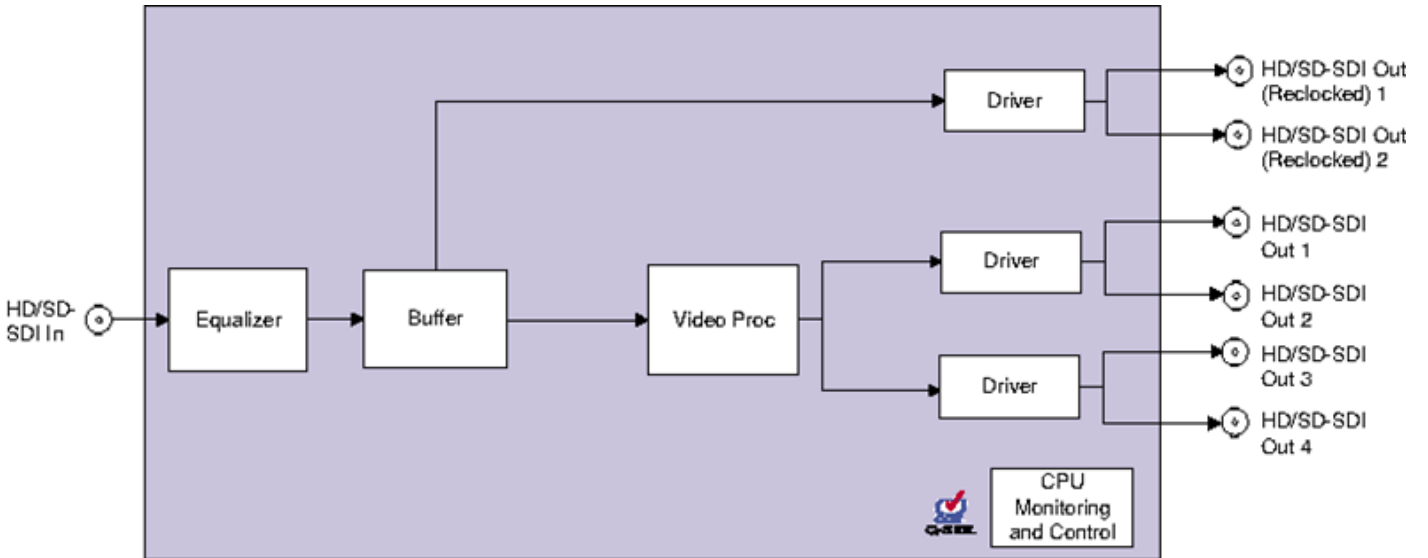
Power Consumption	12 W maximum
Operating Temperature	41° to 113° F (5° to 45° C)

#### Ordering Information

AFD6800+D	HD/SD AFD/WSS insertion module
-----------	--------------------------------



Block Diagram



Back Module

