

DA-DH/DHR/6804+D

Low Power Dual 1x4 or Single 1x8 with Built-in ACO, 3G/HD/SD/ASI

The DA-DHR6804+D dual distribution amplifier (DA) provides two channels of 3G/HD/SDI/ASI/SMTPE310 video distribution with cable equalizing and reclocking.

Built for use with the 6800+™ modular processing platform, the DA-DH6802+D dual DA provides two channels of 3G/HD/SDI/ASI/SMTPE310 video distribution with cable equalizing and is non-reclocking.

The DA-DH6804+D and DA-DHR6804D dual DAs have four outputs for each input (two 1x4) and are user-configurable to function as single-channel DAs with eight outputs (1x8).

The DA-DH6804+D and DA-DHR6804+D dual DAs feature broadcast-quality performance that exceeds SMPTE specifications. Software configuration of all parameters and remote indication of signal presence and alarms are standard.

Features

- Low power drop in replacement for the DA-DH/DHR6804+D DA
- Cost-effective DA with equalizing and reclocking (DA-DHR6804+D only)
- Dual 1x4 configurable as 1x8
- Automatic cable equalization on inputs
- Automatic or forced rate detection
- Reclocking with automatic or forced bypass (DA-DHR6804+D only)
- Identical polarity for ASI compatibility on all outputs
- Built-in automatic changeover (ACO) protection between inputs
- Feedback status reports input signals present and locked
- Card-edge control with LED feedback
- Remote control with status and alarm
- 20 channels of 1x4 or 10 channels of 1x8 distribution in a 2RU 6800+ frame
- Automatically power saving if no input signal is applied or if there is no termination on the output

Specifications

Specifications and designs are subject to change without notice	
Signal type	3 Gb/s HD, SD, ASI
Connector	BNC (IEC 169-8)
Impedance	75 ohms
Return Loss	>15 dB to 1485 MHz >10 dB to 2.97 Gb/s
CABLE EQUALIZATION:	
270 Mb/s	>1312 ft (400 m) Belden 1694 or equivalent
1.485 Gb/s	>656 ft (200 m) Belden 1694 or equivalent

CABLE EQUALIZATION:	
2.97 Gb/s	>410 ft (125 m) Belden 1694 or equivalent
Number of Outputs	8
Signal Type	3G/HD/SD-SDI, ASI
Connector	BNC (IEC 169-8)
Impedance	75 ohms
Return Loss	>15 dB to 1485 MHz >10 dB to 2.97 Gb/s
Signal Amplitude	800 mV ±10%
DC Offset	0 V ±0.5 V

RISE AND FALL TIME:	
270 Mb/s	400 to 700 ps (20 to 80% amplitude)
1.485 Gb/s	<270 ps (20 to 80% amplitude)
2.97 Gb/s	<135 ps (20 to 80% amplitude)
Overshoot	<10% of amplitude
Jitter	3G-SDI <0.3UI HD/SD-SDI, ASI <0.2UI
Power Consumption	<3.8 W <1.5 W sleeping

TEMPERATURE	
Operating Temperature	32° to 122° F (0° to 50° C)
Performance Temperature	41° to 104° F (5° to 40° C)
Start-Up time	Approximately 3 sec

Ordering Information

DA-DH6804+D	Low Power Dual 1×4 DA or single 1×8 with secondary back-up input and built-in ACO, 3G/HD/SD/ASI non-reclocking, 2 slots
DA-DHR6804+D	Low Power Dual 1×4 DA or single 1×8 with secondary back-up input and built-in ACO, 3G/HD/SD/ASI with reclocking, 2 slots

Images/Diagrams

