

# DA-H/HR6802+S/D/DL

1x4 or 1x8, 3 Gb/s/HD/SD/ASI

The DA-H6802+/DA-HR6802+ distribution amplifiers (DAs) provide one channel of 3 Gb/s/HD/SDI/ASI, SMTPE 310 video distribution with cable equalizing and reclocking (reclocking on DA-HR6802+ only). DA-H6802+D/DL and DA-HR6802+D/DL are single-channel DAs with eight outputs (1x8). The DA-H6802+/DA-HR6802+ DAs feature high video performance, low cost and remote indication of signal presence and alarms.

The DA-H6802+D/DL and DA-HR6802+D/DL DAs provide 10 channels of 1x8 3 Gb/s/HD/SDI/ASI/SMTPE310 310 distribution in a 2RU 6800+ frame with low power consumption, and non-inverting ASI compatibility on all outputs.

The +S configuration of this product refers to the single-slot back module, which allows the DA to function as a single-channel 1x4 DA.

The available +DL configuration for this product refers to the Looping Input back module, which is a double slot back module (1x8 with looping input) and is ideal for cascading DA applications. Looping Input is now available!

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## FEATURES

- Inexpensive DA with equalizing and reclocking (DA-HR6802+ only)
- Single 1x8 with dual back panel or single 1x4 with single back panel
- Automatic cable equalization on inputs
- Automatic or forced rate detection
- Reclocking with automatic or forced bypass at 270 Mb/s, 1.485 Gb/s and 2.97 Gb/s (DA-HR6802+ only)
- Identical polarity for ASI compatibility
- Feedback status reports input signals present
- Feedback status reports input signals locked
- Card-edge control by jumpers with LED feedback
- Remote control with status and alarm
- 10 channels of 1x8 distribution (+D, +DL) or 20 channels of 1x4 (+S) in a 2RU 6800+ frame



Connector	BNC (IEC169-8)
Impedance	75 ohms
Return Loss	>15 dB to 1485 MHz >10 dB to 2.97 Gb/s

**Cable Equalization:**

270 Mb/s	>984 ft (350 m) Belden 1694 or equivalent
1.485 Gb/s	>492 ft (140 m) Belden 1694 or equivalent
2.97 Gb/s	>230 ft (70 m) Belden 1694 or equivalent

Number of Outputs	8 (1x8) or 4 (1x4)
Signal Type	3 Gb/s HD, SD, ASI
Connector	BNC (IEC169-8)
Impedance	75 ohms
Return Loss	>15 dB to 1485 MHz >10 dB to 2.97 Gb/s

Signal Amplitude	800 mV $\pm$ 10%
DC Offset	0.0 V $\pm$ 0.5 V

**Rise and Fall Time:**

270 Mb/s	400-700 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	<0.2 UI pk-pk

<b>Power Consumption</b>	<6.0 W
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**Propagation Delay**

DA-HR6802+	~4 ns (for reference only)
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**Temperature**

Operating Temperature	32° to 122° F (0° to 50° C)
Performance Temperature	50° to 104° F (10° to 40° C)

**Start-Up Time**

Start-up time for DA-H6802+/DA-HR6802+ modules is approximately 3 seconds

## ORDERING INFORMATION

DA-H6802+S	1x4 DA, 3 Gb/s/HD/SD/ASI non-reclocking, one slot
DA-H6802+D	1x8 DA, 3 Gb/s/HD/SD/ASI non-reclocking, two slots

DA-H6802+DL	1x8 DA with looping input, 3 Gb/s/HD/SD/ASI non-reclocking, two slots
DA-HR6802+S	1x4 DA, 3 Gb/s/HD/SD/ASI with reclocking, one slot
DA-HR6802+D	1x8 DA, 3 Gb/s/HD/SD/ASI with reclocking, two slots
DA-HR6802+DL	1x8 DA with looping input, 3 Gb/s/HD/SD/ASI with reclocking, two slots

Provided by: Mega Hertz 800-883-8839 sales@go2mhz.com www.go2mhz.com