

HDA-1006

1x8 3Gbps/HD/SD SDI Distribution Amplifier with Reclocking and Equalizing

SPECIFICATIONS

Specifications are subject to change without notice.

ELECTRICAL INPUT

Signal.....3Gbps/HD/SD SDI SMPTE 424M,
292M and 259M-C compliant
Supports data rates of 270, 1483.5,
1485, 2967, 2970Mbps

Connector type.....BNC, LC

Number of input.....BNC x 1, LC x 1 selectable

Impedance.....75 ohm(BNC), 100 ohm(LC)

Cable length (1694A cable)...2.97Gbps: 100 m (328')
1.485Gbps: 150 m (492')
270Mbps: 400 m (1311')

Reclocking.....270 Mbps and 1.483, 1.485, 2.967,
2.970 Gbps

Return loss.....>15 dB, 5 MHz to 1.5 GHz
>10 dB, 1.5 GHz to 3 GHz

PROCESSING PERFORMANCE

Signal path.....10 bits

Latency.....< 6 ns

ELECTRICAL

Power.....5 W

ENVIRONMENTAL

Operating Temperature..... 32° ~ 104° F (0° ~ 40° C)

Relative Humidity.....10% ~ 90%

ELECTRICAL OUTPUTS (8)

Signal.....3Gbps/HD/SD SDI SMPTE 424M,
292M and 259M-C compliant
Supports data rates of 270, 1483.5,
1485, 2967, 2970Mbps

Connector type.....BNC

Number of outputs.....8

Level.....800 mVp-p ±10 %

Return loss.....>15 dB, 5 MHz to 1.5 GHz
>10 dB, 1.5 GHz to 3.0 GHz

Rise/fall time.....3Gbps: ≤135 ps
HD: ≤270 ps
SD: 400~1500 ps

Alignment jitter.....100 kHz ~ 300 MHz
3Gbps: <0.3 UI
HD/SD: <0.2 UI

Timing jitter.....10 Hz ~ 100 kHz
3Gbps: <2.0 UI
HD: <1.0 UI
SD: <0.2 UI

Overshoot.....≤10 % of amplitude max

Offset.....0 V DC ±0.5 V