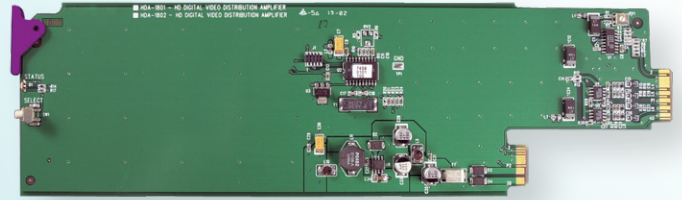

DATASHEET

HDA-1851

HD/SD/ASI DA

with EQ



Space-saving, modular platform for advanced signal processing.

The HDA-1851 from Grass Valley® is an HD/SD/ASI DA with up to nine outputs and automatic equalization for up to 140 meters (459 feet) using Belden 1694A.

The HDA-1851 DA supports both HD-SDI (SMPTE ST 292) and SDI (SMPTE ST 259-C). It also offers signal presence detection and remote reporting. The card's multiformat features make it ideal for applications where HD and SD signals may co-exist.

Key Features

- HD-SDI input
- Supports HD-SDI (1.485, 1.485/1.001 Gb/s)
- 140m (459 ft.) automatic cable equalization
- 9 HD-SDI outputs
- Supports SD-SDI 270 Mb/s (rise/fall time at HD speed only)
- Signal presence detection with remote reporting

Specifications

Input

Signal:

SMPTE ST 292 (1.485, 1.485/1.001 Gb/s)
SMPTE ST 259-C (270 Mb/s)
EN50 083-9 DVB-ASI (270 Mb/s)
SMPTE ST 310/DVB-SSI

Cable length:

HD: 140m (459 ft.) Belden 1694A
SD: 300m (984 ft.) Belden 1694A

Return loss: >15 dB up to 1.5 GHz

Output

Signal:

SMPTE ST 292 (1.485, 1.485/1.001 Gb/s)
SMPTE ST 259-C (270 Mb/s), rise/fall time at HD speed only)

Return loss: >15 dB up to 1.5 GHz

Jitter: <0.2 UI p-p (wideband)

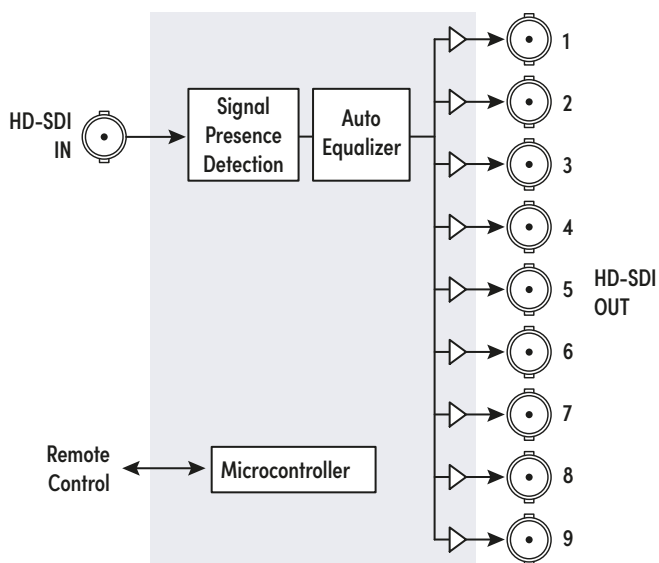
Processing Performance

Signal path: 10 bits

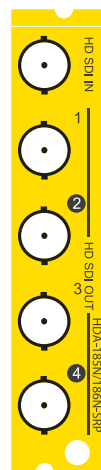
Latency: 3 ns

Electrical

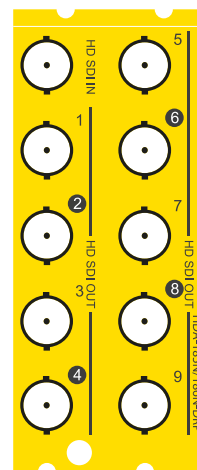
Power: 2W



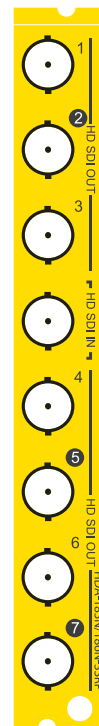
HDA-1851 Functional Block Diagram



HDA-185N/186N-SRP



HDA-185N/186N-DRP



HDA-185N/186N-3SRP

Ordering

Densité® 2 frame

HDA-1851
HDA-185N/186N-SRP
HDA-185N/186N-DRP

Remote control

Densité 3 frame

HDA-1851-3RU
HDA-185N/186N-DRP-3RU
HDA-185N/186N-3SRP

GV Orbit®, iControl™, iControl Solo

Description

HD/SD/ASI DA with EQ
Single rear connector panel with 4 outs
Double rear connector panel
Single rear connector panel with 7 outs

This product may be protected by one or more patents. For further information, please visit: www.grassvalley.com/patents

DS-PUB-3-0386A-EN

Grass Valley®, GV®, GV Grass Valley®, and the Grass Valley logo are trademarks or registered trademarks of Grass Valley USA, LLC, or its affiliated companies in the United States and other jurisdictions. Grass Valley products listed above are trademarks or registered trademarks of Grass Valley USA, LLC or its affiliated companies, and other parties may also have trademark rights in other terms used herein. Copyright © 2015, 2024 Grass Valley Canada. All rights reserved. Specifications subject to change without notice.

www.grassvalley.com Join the Conversation at GrassValleyLive on [Facebook](#), [Twitter](#), [YouTube](#) and Grass Valley on [LinkedIn](#)