

# Pacific DA-204

Multi-rate SDI Reclocking Distribution Amplifier



# Pacific DA-204

Multi-rate SDI Reclocking Distribution Amplifier



# Pacific DA-204 Feature Highlights

## **Modular card-based**

architecture houses up to 8 independent distribution amplifier cards in an 1RU chassis.

**Multi-rate** 1-to-4 or 2 sets of 1-to-2 SDI distribution for each card (or each standalone DA-204).

**Hot-swappable** cards enable card addition and replacement with minimal operation interruption; redundant power supply ensures mission-critical robustness.

**Automatic input sensing** and adapting to SMPTE standards, supporting data rates from 270 Mbps to 11.88 Gbps (SD-SDI to 12G-SDI).

**Adaptive cable equalization** compensates for signal losses and improves signal transmission distances beyond 500m (SD-SDI via 1694a coax cable).

**Automatic output reclocking** restores signal integrity and reduces jitters over long cable runs.

**Flexible signal routings** easily configured through DIP switch settings.

**Automatically detects** signal absence and switches to the secondary source, a low-cost backup scheme in dealing with loss of primary sources for mission-critical applications.

**Distribution** of videos up to 4K clarity with multi-channel embedded audio and ancillary data.



# Pacific DA-204 (1RU) Overview



- ① LED indicators for displaying input presence status (one set of indicators corresponds to one card)
- ② DIP switch setting for video routing configurations (one DIP switch corresponds to one card)

# Pacific DA-204 (1RU) Overview



Flexible mix-and-match of 12Gbps and 3Gbps Card in the 1RU chassis (up to 8 cards per chassis)

## 3Gbps Card

- 1 BNC connectors for SDI (3G/HD/SD) video source signals
- 2 BNC connectors for distributed SDI (3G/HD/SD) outputs

## 12Gbps Card

- 3 BNC connectors for SDI (12G/6G/3G/HD/SD) video source signals
- 4 BNC connectors for distributed SDI (12G/6G/3G/HD/SD) outputs

- 5 Redundant hot-swappable power supply (12V DC)

# Pacific DA-204 (Standalone) Overview



The Pacific DA-204 3Gs (left) and DA-204 12Gs (right) use the same front panel

## Pacific DA-204 3Gs

- 1 LED indicators for displaying input presence status
- 2 DIP switch setting for video routing configurations
- 3 12V DC power supply
- 4 BNC connectors for SDI (3G/HD/SD) video source signals
- 5 BNC connectors for distributed SDI (3G/HD/SD) outputs

## Pacific DA-204 12Gs

- 6 BNC connectors for SDI (12G/6G/3G/HD/SD) video source signals
- 7 BNC connectors for distributed SDI (12G/6G/3G/HD/SD) outputs

## Modular Card Type

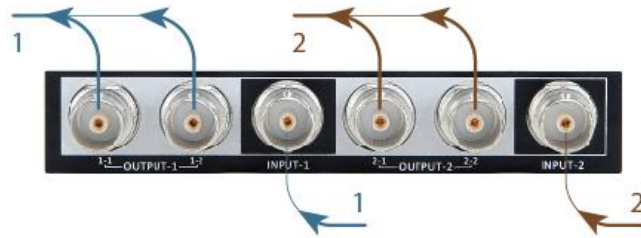
Two types of modular cards (12Gbps Card and 3Gbps Card) can be installed in the Pacific DA-204, supporting distribution of up to 12G and 3G-SDI source signals over extended distances. Various card combinations in the 1RU chassis aim to meet various application needs.

| Card Type   | 12Gbps   | 3Gbps                            |
|---|--|----------------------------------|
| I/O Number (per card)                               | 2 Inputs 4 Outputs                                       |                                  |
| Format  | 12G/6G/3G/HD/SD-SDI                                      | 3G/HD/SD-SDI                     |
| Transmission Distance<br>(through 1694a coax cable) | 12G: 60m<br>6G: 100m<br>3G: 220m<br>HD: 265m<br>SD: 530m | 3G: 100m<br>HD: 200m<br>SD: 400m |

# Manual Routing Configuration

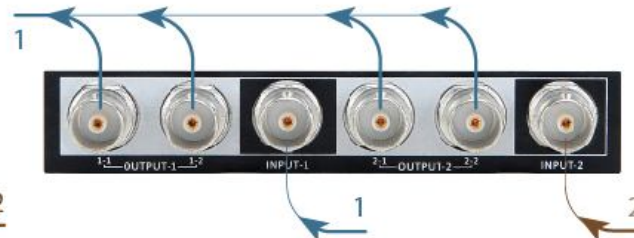
By configuring the DIP switch setting corresponding to each modular card, the Pacific DA-204 can be set to perform signal distribution in one of the 3 manual routings as follows:

Fixed 2-OUT



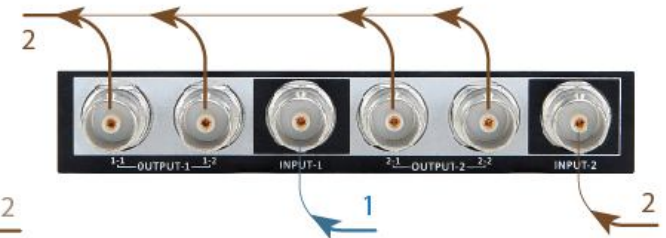
Fix each input to the two corresponding outputs

First IN 4-OUT



Route Input 1 signal to all four outputs

Second IN 4-OUT

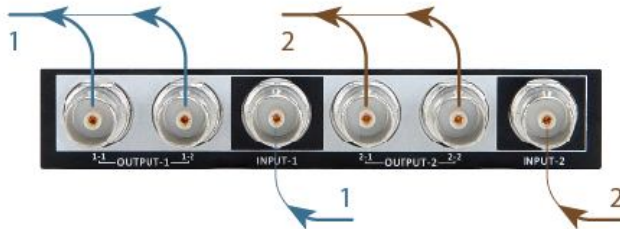


Route input 2 signal to all four outputs

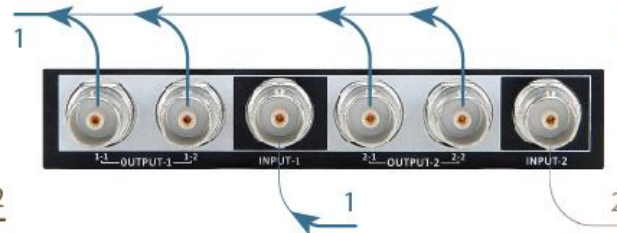


# Automatic Routing Configuration

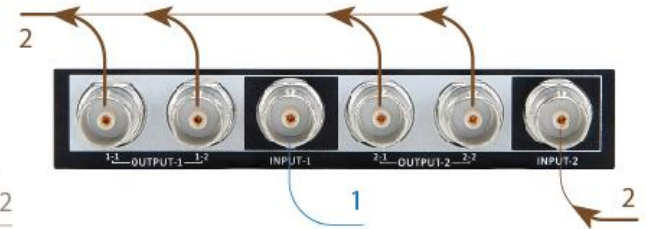
By configuring the DIP switch setting to automatic routing, the Pacific DA-204 will intelligently perform signal distribution based on the presence of valid inputs. It requires less than 60 milliseconds response time to detect signal presence and finish altering signal routings.



If signal presence is detected at both input 1 and input 2, each input will be automatically routed to the two corresponding outputs.



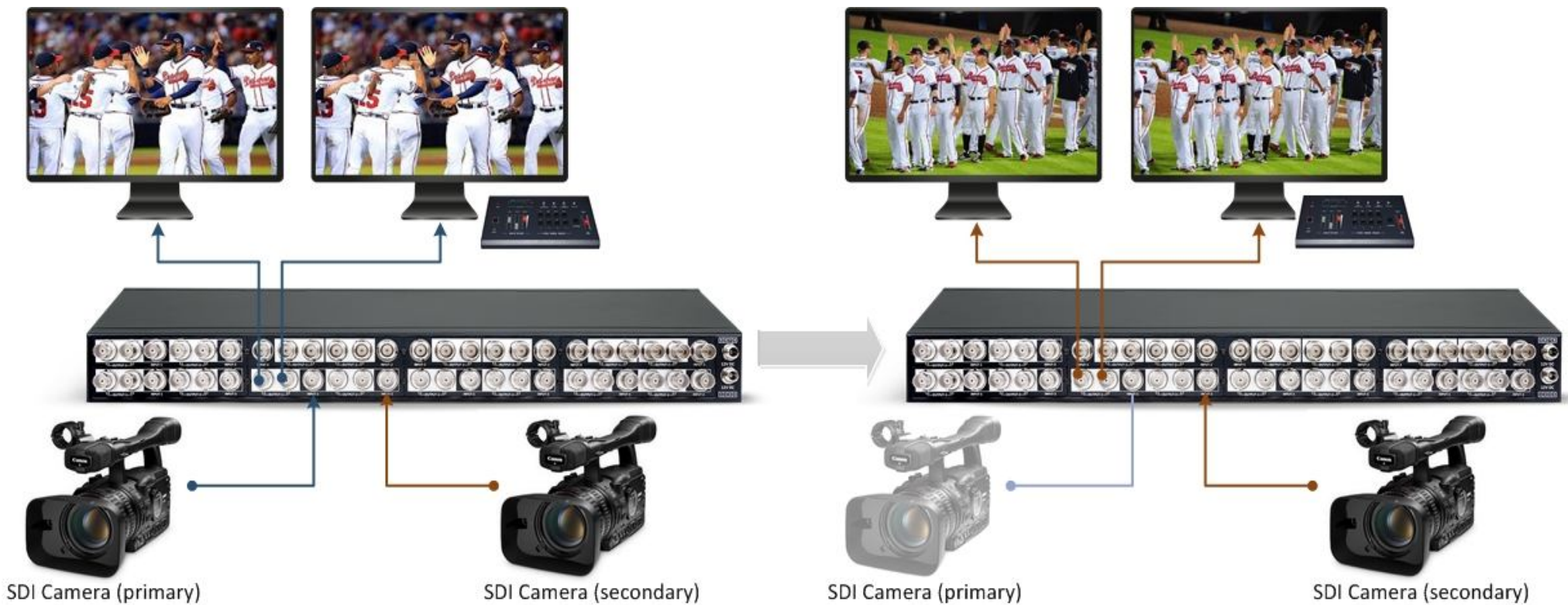
If signal presence is detected only at input 1, this input will be automatically routed to all four outputs.



If signal presence is detected only at input 2, this input will be automatically routed to all four outputs.

# Reliable Backup Solution

Featuring automatic signal presence detection, the Pacific DA-204 automatically switches to the valid input in case signal loss of either input, forming a low-cost backup solution in signal distribution.



# Compact SDI Distribution Amplifier

The Pacific DA-204 12Gs and 3Gs are standalone, multi-rate SDI reclocking distribution amplifiers designed for small-scale signal distribution. Each accommodating 2 SDI inputs and 4 SDI outputs, as well as routing flexibility and adaptive equalizer as the modular model, these compact distribution amplifiers ensure unmatched quality and reliability with the simplest installation.





# Contact Avitech

Phone: 425.885.3863

Toll Free: 1.877.AVITECH

Fax: 425.885.4726

15377 NE 90th Street Redmond, WA 98052, USA

[www.avitechvideo.com](http://www.avitechvideo.com)

[sales@avitechvideo.com](mailto:sales@avitechvideo.com)

Specifications and data are subject to change without notice.

Copyright ©2015 Avitech. All Rights Reserved.