



PRO-12GSDI4P

1x4 12G/6G/3G/HD/SD-SDI Distribution Amplifier with Reclocking

User's Guide











Congratulations for owning a gofanco product. Our products aim to meet all your connectivity needs wherever you go.

Have fun with our products!

Please read this manual carefully before first use.

If you need more information about our products, please visit www.gofanco.com.

For technical support, please email us at support@gofanco.com.

For drivers/manuals download, please go to http://www.gofanco.com/download.



1. Introduction

The PRO-12GSDI4P 1x4 12G/6G/3G/HD/SD-SDI Distribution Amplifier with Reclocking receives one SDI input, perfectly duplicates it, and re-transmits four SDI outputs for real time multi-viewing. It is a reliable video device splitting an SDI, HD-SDI, 3G-SDI, 6G-SDI, or 12G-SDI video source to four SDI compliant displays at the same time.

2. Features

- 12G/6G/3G/HD/SD-SDI distribution
- Four independently buffered and reclocked outputs*
- · Cable equalization and signal retiming
- · LED indication of signal lock and video rate
- · Pass ancillary data and embedded audio
- Provides automatic input cable equalization (Belden 1694A) up to 180m (594ft)@3G, 100m (330ft)@6G and 70m(230ft) @12G
- Reclocking SDI signals for cascading and thus longer transmission
- Inter-locked power supply for better fixedness
 - ★ Due to the super high frequency and lower jitter requirement for 12G SDI signals, to have the best performance, it is strongly recommended to use one 75 ohm terminator if the paired SDI in not in use.

Please see the following table for 12G SDI output pairing.

Table #1

	Output Port	
Pair A	Output 1 & 2	
Pair B	Output 3 & 4	

3. Package Contents

- 1x PRO-12GSDI4P
- 1x 5V power adapter
- 1x BNC 75 ohm terminator
- 1x User Manual



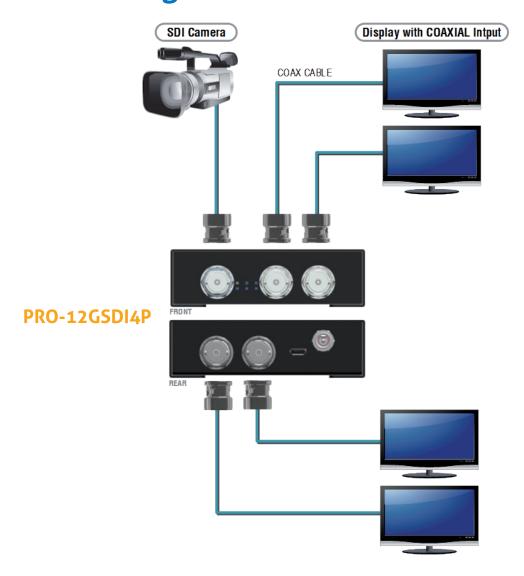
4. Specifications

ltem		Description		
SDI standard		SD/HD/3G/6G/12G-SDI		
Multi-Rate Su	pport	Auto detection of SD, HD, :	3G, 6G or 12G Signals	
SDI Compliance		SMPTE 424M, SMPTE 292M, SMPTE 344M, SMPTE 259M, DVB-ASI, ST-2081(6G), ST2082(12G)		
SDI Data rates		1.485 / 2.97 / 5.94 / 11.88 Gbps		
Video bandwidth		[11.88Gpbs & 11.88/1.001Gbps]		
Output impedance		75π		
Reclocking		Yes		
Cable equalization		[12G] up to 70m (230ft) [6G] up to 100m (330ft) [3G] up to 180m (594ft)		
Audio support		Yes		
RP-198 pathological		Immune		
patterns				
PCB stack-up		4-layer board [impedance control — differential 100 π ; single 7!		
Input		1x BNC [SDI]		
Output		4x BNC [SDI]		
BNC connector		75 π inter-locked socket		
Eye pattern characteristics[12G]		Amplitude: Within 800mV (<10%) Rise/Fall time: Less than 35ps	Timing jitter: <1.0 UI (10Hz to 1188MHz) Alignment jitter: <0.3 (100KHz to 1188MHz)	
Mechanical				
Housing		Metal enclosure		
D	Model	92 x 42 x 28 mm [3.6" x 1.7" x 1.1"]		
Dimensions F	Package	198 x 137 x 74mm [7.8" x 5.4" x 2.9"]		
[L x D x H] (Carton	420 x 400 x 300mm [1	L'4"x 1'3" x 11.8"]	
Majaht	Model	119g [4.2 oz]		
Weight F	Package	346g [0.7 lbs]		
Fixedness		Inter-locked power supply		
Power supply		5V 1A DC		
Power consumption		3 Watts [max]		
Operation temperature		0~40°C [32~104°F]		
Storage temperature		-20~60°C [-4~140°F]		
Relative humidity		20~90% RH [no condensation]		

^{*} The measurement results are from Phabrix QX with SDI through 1m (3.3ft) long Belden 1694A.



5. Connection Diagram



6. Hardware Installation

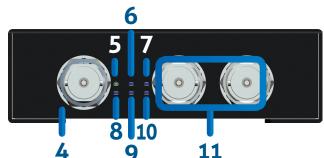
- 1. Connect an SDI camera or other SDI devices to the PRO-12GSDI4P's SDI input.
- 2. Connect SDI sink devices (e.g. monitors or video processors) to the PRO-12GSDI4P's outputs.
- 3. Plug the power adapter into a reliable power outlet.



7. Panel Description

Front Panel





Rear Panel

- 1. 12G/6G/3G/HD/SD-SDI output
- 2. Micro-USB for F/W update
- 3.5V DC power jack
- 4. 12G/6G/3G/HD/SD-SDI input
- 5. Power LED indicator
- 6. 12G Signal LED indicator
- 7.6G Signal LED indicator
- 8.3G Signal LED indicator
- 9. HD Signal LED indicator
- 10. SD Signal LED indicator
- 11. 12G/6G/3G/HD/SD-SDI output



11. Limited Warranty

The SELLER warrants the PRO-12GSDI4P 1x4 12G/6G/3G/HD/SD-SDI Distribution Amplifier with Reclocking to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the PRO-12GSDI4P features and specifications is subject to change without further notice.

Disclaimer

The product name and brand name may be registered trademarks of related manufacturers. TM and ® may be omitted on the user's guide. The pictures on the user's guide are just for reference, and there may be some slight differences with the actual products.

We reserve the rights to make changes without prior notice to a product or system described herein to improve reliability, function, or design.

