

Specification

Video input	
3G	SMPTE 424M & 425M-AB (2.97 & 2.967Gb/s) 1080p50/59.94/60
HD	SMPTE 292M (1.485 & 1.435Gb/s) 1080i 60/59.94/50 1080p 60/59.94/50 720p 60/59.94/50/30/29.97/25/24/23.98
SD	SMPTE 259M-C (270Mb/s) 625i 50 525i 59.94
ASI	DVB-ASI at 270Mb/s
Number	1
Connector	75Ω BNC
Return loss	>15dB to 1.485GHz >10dB 1.5 to 2.97GHz
Cable equalisation	3G to 100m, HD to 160m, SD to 250m (Belden 1694A)
Video outputs	
Standards	As input
Format	As input
Number	4 (when DVB-ASI 2 are inverted)
Connectors	75Ω BNCs
Jitter	<0.2ui peak-to-peak
Return loss	>15dB to 1.485GHz >10dB 1.5 to 2.97GHz
Electrical	
Voltage	6-12VDC
Power	<1.5W
Connector	Locking 2.5mm jack (centre +ve)
Safety	EN60950
Other	
LEDs	Power and valid input presence
Size (mm)	63.5 x 84 x 30 plus connectors
Weight	175g
Temperature	5°C to 40°C
Humidity	80% max (non condensing)

Options	
4006	Desktop power supply with IEC inlet
4010	1U rack mounting frame for up to 5 units including PSU
4020	2U rack mounting frame for up to 14 units & single or dual PSUs
4021	Power supply for 4020 2U frame



User Guide



4204 1x4 3G-HD-SD non-clocking distribution amplifier

Accepts all SDI rates up to 3G SDI or DVB-ASI with automatic cable equalisation and provides 4 non re-clocked outputs

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DTL MiniBlox™ - solutions in a box

General description

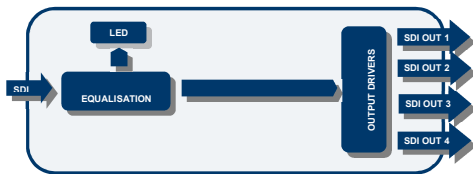
The 4204 amplifier is an extremely compact and rugged unit that operates with all SDI standards from 270Mb/s to 3GHz and also supports DVB-ASI on tow outputs. It has automatic input cable equalisation and provides 4 non re-clocked outputs. An LED shows when power and a valid signal are present.

The unit requires an external power supply or a rack mounting frame. A 1RU frame is available which takes up to 5 units and a 2U one that takes up to 14.

Key features

- Automatic 3G, HD, or SD SDI or DVB-ASI at 270Mb/s standard detection
- Automatic input cable equalisation
- 4 re-clocked outputs (when DVB-ASI 2 are inverted)
- LED shows power and valid input signal presence
- Locking connector for power input
- Compact and rugged design
- Optional external power supply
- Optional rack mounting frames with central power supplies

Functional block diagram



Installation and operation

The unit is simple to use and install.

- Connect a valid input.
- Connect outputs.
- Apply power to the unit either via the locking power connector from the external power supply or 1U rack frame, or by sliding into the 2U rack mounting frame with central power supplies.
- The LED will be green when there is power and a valid SDI signal present.
- The mounting bracket supplied can be used to install a MiniBlox unit. The bracket should first be fixed vertically to any surface. The MiniBlox can then be lowered onto the dovetail part of the bracket with the front endplate uppermost to retain it.

EU declaration of conformity

We certify that this apparatus conforms to the requirements of the EMC and Low Voltage Directives. Emissions EN55103-1, susceptibility EN55103-2 and safety EN60950-1 2002.

1 November 2008



Warranty

DTL Broadcast Ltd warrants this unit against defects in materials and workmanship for a period of one year from the date of shipment. At its option, the company will repair or replace products that prove to be defective during the warranty period, provided they are returned to the company with advance notification and with freight prepaid. Repairs may only be conducted by an authorised representative of the company. As a result any unauthorised repair or attempted repair will automatically void the warranty.

When a distributor supplies the company's products, that distributor should be approached initially if there are any warranty problems.

The company makes no other warranties, express or implied, as to the merchantability, fitness for a particular purpose, or otherwise. The company's liability for any cause, including breach of contract, breach of warranty, or negligence, with respect to products sold by it, is limited to repair or replacement by the company, at its sole discretion. This remedy is exclusive. In no event shall the company be liable for any incidental or consequential damages, including loss of profits.