



## Splitters and Combiners.



Complementing the Freeway 128 audio routers, this range of self contained splitter and combiner modules provide Freeway analogue video systems with the ability to expand beyond 64 x 64 up to 128 x 128. Each module is 1RU x 19 inch rack mounting and has been designed with an ultra thin profile in order that they can be mounted to the rear of the Freeway frame, saving valuable rack space. A single power supply can power up to four modules, and provision has been made to allow for main and backup PSUs to be supplied.

### Freeway Splitters

Each splitter module provides sixteen 1 in, 2 out active splitters for analogue video signals and is used for destination expansion. Each input signal is split and can then be fed to two Freeway frames giving 64 x 128 using two 64 x 64 Freeway analogue video frames.

### Freeway Combiners

Each combiner module provides sixteen 2 in, 1 out combining switches for analogue video signals. In addition, each module is connected to, and receives its control signals from the Freeway control bus. These modules provide source expansion, permitting two 64 x 64 analogue Freeway frames to be used to construct a 128 x 64 router.

In order to build a 128 x 128 Freeway analogue video router, four 64 x 64 Freeway routers, eight splitter and eight combiner modules are required. The splitters and combiners are supplied with control cables where necessary.

The Freeway control system ensures that all the necessary switching of the discrete 64 x 64 blocks and the combiners is carried out transparently.

## Splitters Specification

Number of channels Sixteen independent 1 into 2 distribution amplifiers

### Inputs

Number and type Sixteen, unbalanced on BNCs

Amplitude 1V pp

Impedance 75Ω

### Outputs

Number and type Sixteen, 2 outputs per channel, unbalanced on BNCs

Amplitude 1V pp

Impedance 75Ω

### Performance

Gain 0dB ±0.1dB

Frequency response ±0.1dB to 8MHz

## Combiners Specification

Number of channels Sixteen independent 2x1 routers

### Inputs

Number and type Thirty two, 2 inputs per channel, unbalanced on BNCs

Amplitude 1V pp

Impedance 75Ω

### Outputs

Number and type Sixteen, unbalanced on BNCs

Amplitude 1V pp

Impedance 75Ω

### Performance

Gain 0dB ±0.1dB

Frequency response ±0.1dB to 8MHz

### Mechanical (Splitters and Combiners)

Size 1U x 19inch rack mounting x 25mm deep

Power 20W

Specifications subject to change

### Ordering Information

FAV-SPLT-0000	Sixteen channel Analogue Video Splitter module
FAV-COMB-0000	Sixteen channel Analogue Video Combiner module
FAV-SPCB-BPSU	Power Supply for the Splitter/Combiner modules

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