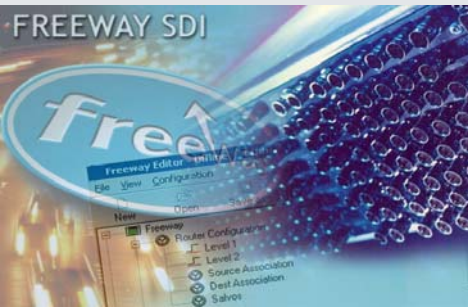


FREEWAY SDI



Freeway's SDI routing easily fulfil your digital video application.



The Freeway SDI architecture, utilising automatic input equalisation and output reclocking, gives exemplary performance at data rates from 140 to 360 Mbit/s. No configuration is required except for setting the correct vertical interval reference for operation in a mixed environment, for example 525 and 625 line. Fully transparent to vertical interval and embedded audio data, Freeway offers full, no hassle compatibility with all digital signal formats.

FEATURES

- Data rates from 140 to 360 Mbit/s
- Automatic sensing of data rates
- Dual standard vertical interval switching
- Adaptive cable equalisation
- Reclocking architecture
- DVB-ASI and STM-1 options

Digital Video Specification

Inputs

Type	Unbalanced NRZI coded serial data
Standard	Serial EBU Tech 3267E SMPTE 259M-ABCD
Impedance	75Ω
Data rate	140 to 360Mbit/s
Return Loss	>13dB 10MHz to 360MHz
Amplitude	800mV pp nominal
DC Offset	<5V
Equalizer	Automatic for up to 250m cable (Belden 8281, PSF 1/2M)

16 channel input cards	Freeway 32	Freeway 64	Freeway 128
x	x	x	

Outputs

Type	Unbalanced NRZI coded serial data
Standard	Serial EBU Tech 3267E SMPTE 259M-ABCD
Impedance	75Ω
Data Rate	140 to 360Mbit/s
Return Loss	>13dB 10MHz to 360MHz
Amplitude	800mV pp ±10%
Overshoot	<7%
DC Offset	0V ±0.5V

Performance

Data Acquisition	20ms
Rise Time	650ps typ
Jitter	<0.5ns (<0.75ns with >200m input cable)

Specifications subject to change

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