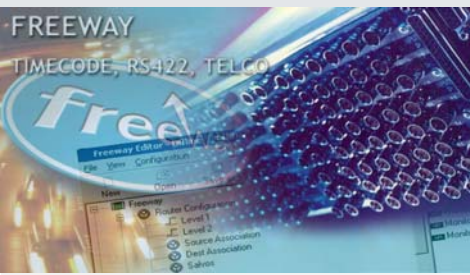




FREEWAY

Timecode/RS422/Telco

Timecode / RS422 Machine Control / Telco.



FEATURES

Timecode

- High packing density
- 128 x 128 in 3U
- Balanced signal presentation

RS422 Machine Control

- High packing density
- 128 port, or up to 64 x 64 in 3U
- Point to point or broadcast routing
- Manual or automatic parking

Telco

- DVB-ASI
- SDH STM-1

Timecode

The Freeway 128 timecode router is assembled using 32 x 32 modules, enabling 128 x 128 to be housed in a 3U frame. This very high density module employs wide bandwidth analogue/digital hybrid circuitry ensuring that the timecode signal is re-sliced and regenerated in accordance with SMPTE 12M-1995. This technology ensures problem free routing with all types of timecode, at all rates including fast spooling. Compatibility with both the 3RU and 6RU frames enables, for example, a useful 32 x 32 timecode router to be slotted into a free slot in an existing Freeway system.

RS422 Machine Control

The Freeway 128, RS422 machine control router provides an ideal complement to the other signal types in the Freeway range by providing full electrical regeneration of the RS422 signal, guaranteeing the most reliable operation. It has the added advantage of being able to operate as a port based routing switcher, this enables machines to be connected as either controllers or devices, and indeed allows their function to change at will. With the addition of broadcast capability allowing one controller to send messages to multiple devices, the Freeway RS422 series is equally at home in a post production operation as a central routing switcher.

Technical Specification

Telco

Freeway supports a variety of Telco related signal formats allowing these signals to be easily incorporated into a traditional broadcast environment.

DVB-ASI

Whilst conventional SDI routing technology can often adequately route and distribute DVB-ASI signals at 270Mbit/s, Pro-Bel's experience is that the performance can be enhanced with certain modifications and so a specialised DVB-ASI variant of Freeway 64 is available.

16 channel input cards	Freeway 32	Freeway 64	Freeway 128
		✓	

SDH/STM-1 155Mbit/s

Distribution of signals using the Synchronous Digital Hierarchies (SDH) format, at 155Mbit/s can also be supported using a Freeway 64 variant. This offers compatibility with the G703-12 standard, using BNC connectors.

16 channel input cards	Freeway 32	Freeway 64	Freeway 128
		✓	

Timecode

Inputs

Number and Type	32: balanced 2 wire to SMPTE 12M, per module
Input Impedance	1k Ω
Input sensitivity	500mV p-p
Input Common Mode Rejection	\pm 12V max
Connectors	50 way 'D' type plug, 16 circuits per connector

Outputs

Number and Type	32: balanced 2 wire typically 2V p-p into 10k Ω per module
Output Impedance	Less than 50 Ω
Connectors	50 way 'D' type sockets, 16 circuits per connector

16 channel input cards	Freeway 32	Freeway 64	Freeway 128
			✓

RS422

Ports

Number and Type	32: balanced 4 wire (bi-directional) to EIA standard RS422-A, per module
Input Impedance	3k Ω
Input Sensitivity	150mV
Input Common Mode Rejection	\pm 12V max
Max Output Current	40mA
Connectors	Four 50 way 'D' type sockets with optional 9 way 'D' socket breakout cable, 8 channels per assembly

16 channel input cards	Freeway 32	Freeway 64	Freeway 128
			✓

Specifications subject to change

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