A-Link brings a new scale of interfacing to the audio world. Utilising video 3G digital interface technology STUDER can now provide a simple and robust digital audio interface capable of transmitting 1536 thirty-two bit audio channels on a single fibre cable. This ultra-high performance link provides more than enough capacity for today’s audio systems but by using such a fast data transport will allow audio systems to grow in the future without having to change interface standards.

**Super fast MADI - zero latency**

New DSP A-Link cards are now available for the STUDER SCore Live DSP engine offering a new "super fast MADI" zero latency optical audio interface. These interfaces may be used to connect directly to I/O frames, other SCore Live DSP units and also third party systems such as video routers and network distribution systems.

Directly linking DSP cards on different frames with this new A-Link interface provides a simple and elegant backbone for Re-Linking of consoles to provide capacity for 192 channels of I/O sharing with up to 150 meters of fibre between the DSP engines. Link redundancy is also provided via a separate fibre cable to enhance reliability.

The A-Link interface uses standard SFP (Small Form-factor Pluggable) optical interfaces. These bi-directional interfaces are widely used in the industry and a huge range of modules are available offering multi mode and single mode operations with wavelengths from 800 nm to 600 nm and distances of up to 80 km without repeaters.

Up to four SFP modules maybe fitted depending on the mode of operation. For basic use one SFP module provides 192 channels on both input and output. An additional SFP module may be fitted to provide cable redundancy. As an alternative two pairs of SFP modules offer two redundant links. In this mode each link carries 96 channels.

These new SCore Live DSP A-Link cards contain the same DSP chip set as provided in the standard SCore Live DSP card. So may be used to replace an existing card in a full frame without loss of DSP power or simply added to provide additional I/O as well as additional DSP. This applies to SCore Live equipped Vista and OnAir 3000 systems.
Each DSP A-Link card also provides a word clock output which is derived from the incoming A-Link stream. This may be used to clock the SCore Live frame.

DSP HD and DSP A-Link cards may be fitted in the same frame offering a simple upgrade path to existing systems by adding additional interfacing to the new D23m frames or a high bandwidth and cost effective interface to third party systems such as video and audio routers.

Part number of the A-Link DSP card is 5011397
SFP modules must be ordered separately.
Multi mode SFP module 850 nm (150 m of 50 μm fibre) is 5042823
Single mode SFP module 850 nm (10 km of 9 μm fibre) is 5042824

STUDER D23m Digital I/O System

The new D23m I/O frame requires the A-Link HD card if used with a SCore Live DSP engine. In this mode the D23m frame status monitoring and control data is embedded into the A-Link data stream avoiding the need for additional control cables. This is also a preferred solution if an I/O frame with more than 64 channels and more than 10 meters from the DSP card (HD cable limit) should be required.