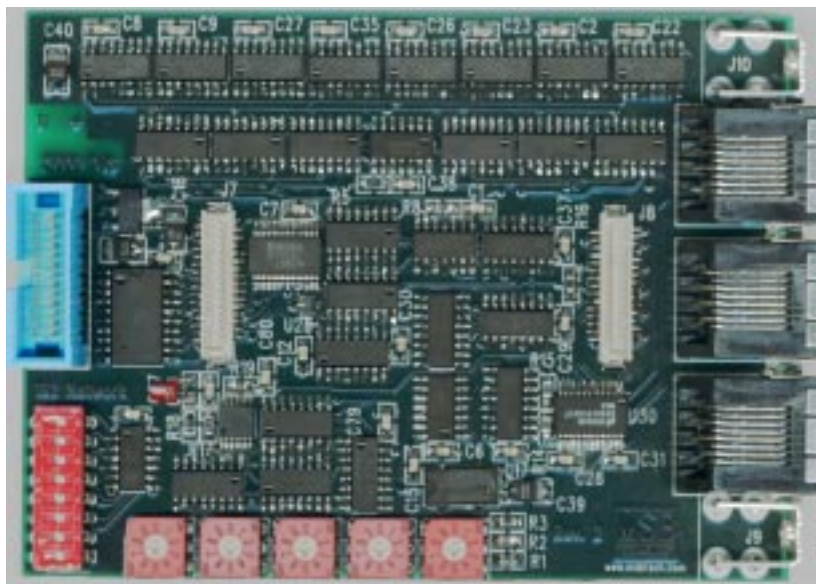


MSB NETWORK 192KHz UPSAMPLER UPGRADE USERS MANUAL

by MSB Technology (March 2001)

The MSB Network 192K Upsampler upgrade installs in most digital products and provides a 192K 24 bit output via the MSB Network all the time. The cost for this upgrade is \$595. It can be installed in a CD player, DVD player, DVD-Audio player or a DVD player with built-in Dolby and DTS decoding. In this case, all 6 channels can be upsampled and output on the same single MSB Network output. This output can be hooked up to the Nelson or GOLD LINK III, the Platinum LINK, or the LINK III with the Network option.



MSB NETWORK 192kHz UPSAMPLER (FULL SIZE)

The Upgrade Process

The MSB upgrade has no effect on any function of the unit to be upgraded. The 192k output always works regardless of how the digital output is configured. For example, if a DVD player is set to output DTS digital during a movie, then the digital output can be attached to a DTS decoder. At the same time, a downmixed stereo version of the soundtrack will be output on the 192k output. The 192k output always plays the same content as the analog audio outputs.

Box the unit and ship to MSB with the following:

1. Remove any discs from the tray to avoid shipping damage.
2. Include Access Cards in DSS receivers but no remotes or accessories that may be lost or damaged.
3. Include a note specifying the 192k input upgrade, the return shipping address and phone number.
4. Include payment in advance - either Credit Card Info, check or a dealer supplied invoice number and name if upgrade is being purchased through an MSB dealer.

You are responsible for shipping damage. Pack the product well, and report any damage quickly. Insure for full value. We have found Fedex provides the lowest level of shipping damage and loss.

The upgrade process usually only takes 2 working days, so it will ship out by FEDEX 3 days after it is received. If your upgrade does not ship 3 days after it is received, we will give you a 1 meter cable for free.



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Output Connections and Cables

The upgrade provides a CAT5 output. You will need a cable for this upgrade. It is not included in the price. One of the requirements of the MSB Network is that twisted pair wiring must be used. Coaxial, audio, digital or video cables will not work at all. It can be interconnected to an MSB Platinum DAC with standard CAT5 cable, up to 100 feet long! Since the LINK III DACs (GOLD, NELSON and LINK III with Network Option) use a balanced XLR connector as the MSB Network input, a special CAT5 to XLR cable must be made or purchased from MSB (shown at left).



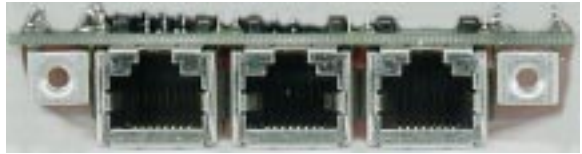
MSB cables are priced as follows:

1 M CAT-5 to CAT-5	\$25	1 M CAT-5 to XLR	\$35
2M CAT-5 to CAT-5	\$35	2 M CAT-5 to XLR	\$45
Custom CAT-5 to CAT-5 or XLR	\$95	plus \$ 5 per foot	

For multichannel applications, 2, 4, 5 or 6 channels of audio are output on the same connector. We provide three identical connectors all with the same data on them. You can hook each connector up to a separate DAC or can daisy chain multiple DACs off one cable.



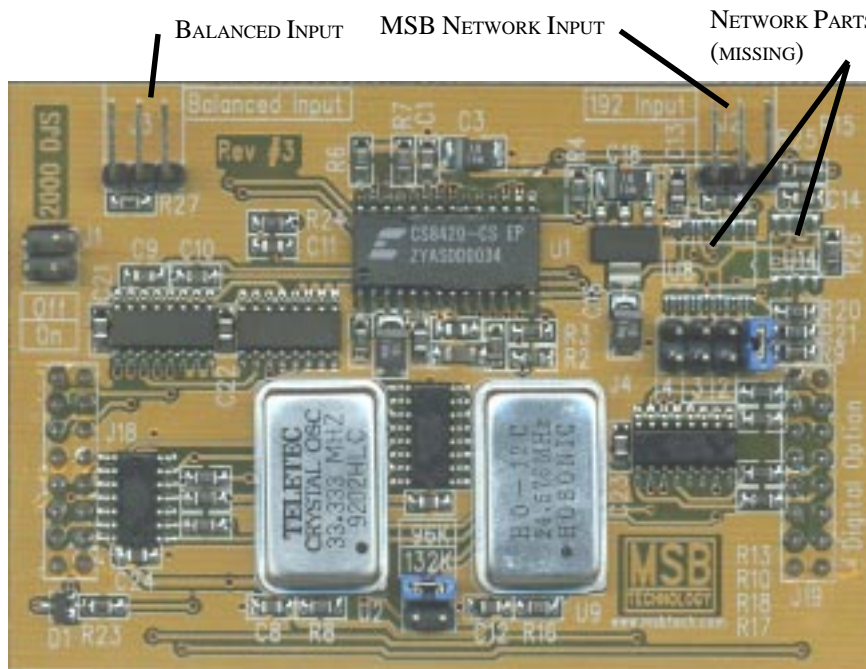
NORMAL MSB NETWORK OUTPUT



MULTICHANNEL MSB NETWORK OUTPUT

Is your DAC ready for 192k?

Today only MSB DACs can handle 192k audio on the MSB Network. Is your MSB DAC ready? If you have a Platinum DAC with a CAT-5 connector on the back, your Platinum is ready. Set your input to Auto or 192k and plug in the CAT-5 cable and you will be up and running. When playing CDs, the frequency display will read 176.4 (four times the CD rate of 44.1). The display will read 192k for all other sources. If you have one of the oldest Platins without a CAT-5 connector, use the XLR input for 192k using the CAT-5 to XLR cable above. They work as the current Platinum described above.



Current NELSON and GOLD LINK DAC IIIs have an XLR connector on the back and a Network board installed. They cannot be used without a configuration change. The cover must be removed and the XLR input connector moved from the plug labeled "Balanced" to "192k". Also note the two parts shown. If either part is missing as shown, the board must be replaced with a new Network board provided by MSB at no charge. The old board must be returned or you will be charged \$285 for a new Network board. Once the Network board is configured any 192k input to the XLR connector will override the other inputs, and the 192k LED will light.