

# SAS Wiring

## WIRING

**SAS makes studio and TOC wiring easy. Router and RIOLink audio I/O, opto/relay, and serial control lines terminate in high-density EURO or RJ21 connectors on the rear panel.**

### 32KD Cables

SAS provides cables in standard lengths of 15 and 25 feet, or special order any custom length to interconnect the rear of the 32KD to the Krone blocks.

The 32KD uses high-density 96-pin Euro connectors for analog audio and serial data, and 50-pin RJ21 connectors for digital audio.



<i>Cable, Euro to two RJ21 connectors:</i>	<i>Cable, RJ21 180° to RJ21 90°:</i>
32KD KAI-16, KAO-16 Use 1 cable & 1 Krone block/card	32KD KDI-16, KDO-16 Use 1 cable & ½ Krone block/card
32KD DRC-16E, Use 1 cable & 1 Krone block/card	GPI-1600 Use 2 cables & 1 Krone block/unit

### RIOLink Cables

The RIOLink uses RJ21 cables for all audio, data, opto and relay connections. It takes (7) RJ21 cables to fully wire a RIOLink.

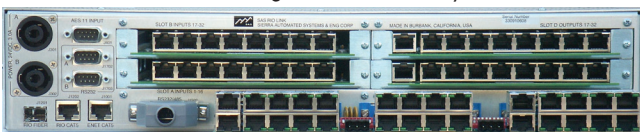
SAS provides cables in standard lengths of 8, 15 and 25 feet, or special order any custom length to interconnect the rear of the RIOLink to the Krone blocks.

Audio Inputs Use 2 cables & 1 Krone block	GPI/GPI Use 2 cables & 1 Krone block
Audio Outputs Use 2 cables & 1 Krone block	RS-485 Serial Use 1 cable & 89D-2132 block.



### RIOLink with RJ45 connections

We also offer a RIOLink that uses RJ45 connections in place of the RJ21 connections. This allows customers to use standard network cables to wire their audio, logic and data directly to the RIOLink.



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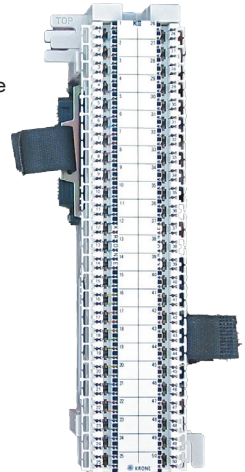
www.sasaudio.com  
Datasheet Revision 1.1  
11/10/2011

## Krone Blocks

The SAS standard wiring system utilizes a special version of the Krone Series 2 K110 Blocks. This block is equipped with two industry-standard RJ21 connectors wired with an internal CAT5 twist to the IDC terminals to maintain the impedance integrity necessary for AES/EBU digital audio. The 89D mounting bracket is included.

These blocks provide far better performance over older 66-type blocks, with twice the density. One unique feature is the center disconnect port, which makes the Krone block a fully-functional patch field. A range of Krone test plugs and cables allow bridging or breaking of the connection for testing, monitoring, and jumpering, without removing any wires.

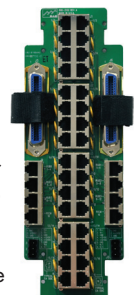
The silver-plated 45°-angle IDC is designed to reduce wire stress, deliver a gas-tight connection, and provides a stronger, more reliable hold. It accepts two conductors of 20-26 AWG solid or stranded wire. Connections are guaranteed for greater than 200 re-terminations.



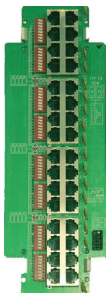
The blocks snap easily onto standard 89D brackets and then be mounted directly to a wall or on Krone mounting frames.

## SAS 89D-2132 and SAS 89D-8x4 Blocks

The SAS 89D-2132 block is used to break out a RIOLink RJ21 connector into a bank of RJ45 connectors. This block is most often used with the RS485 data port on the RIOLink to allow SAS consoles and control panels to be connected with standard networking cables. By connecting a power supply to this panel, you can provide power over the network cable to further ease the installation of SAS Turret and Router Control panels. The two sides of the 89D-2132 block are mirror images, allowing one block to work with 2 RIOLinks.



The SAS 89D-8x4 block is used to facilitate audio connections to SAS turret panels. Using standard network cables, you can take audio outputs (or inputs) and use this block as a distribution and power insertion point for SAS headphone amps, meters and USB turrets. Dip switches allow for flexible configuration to suit any studio needs.



Both SAS 89D Series blocks mount on standard 89D stand-offs (included) and are only slightly wider than a standard punch block.



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