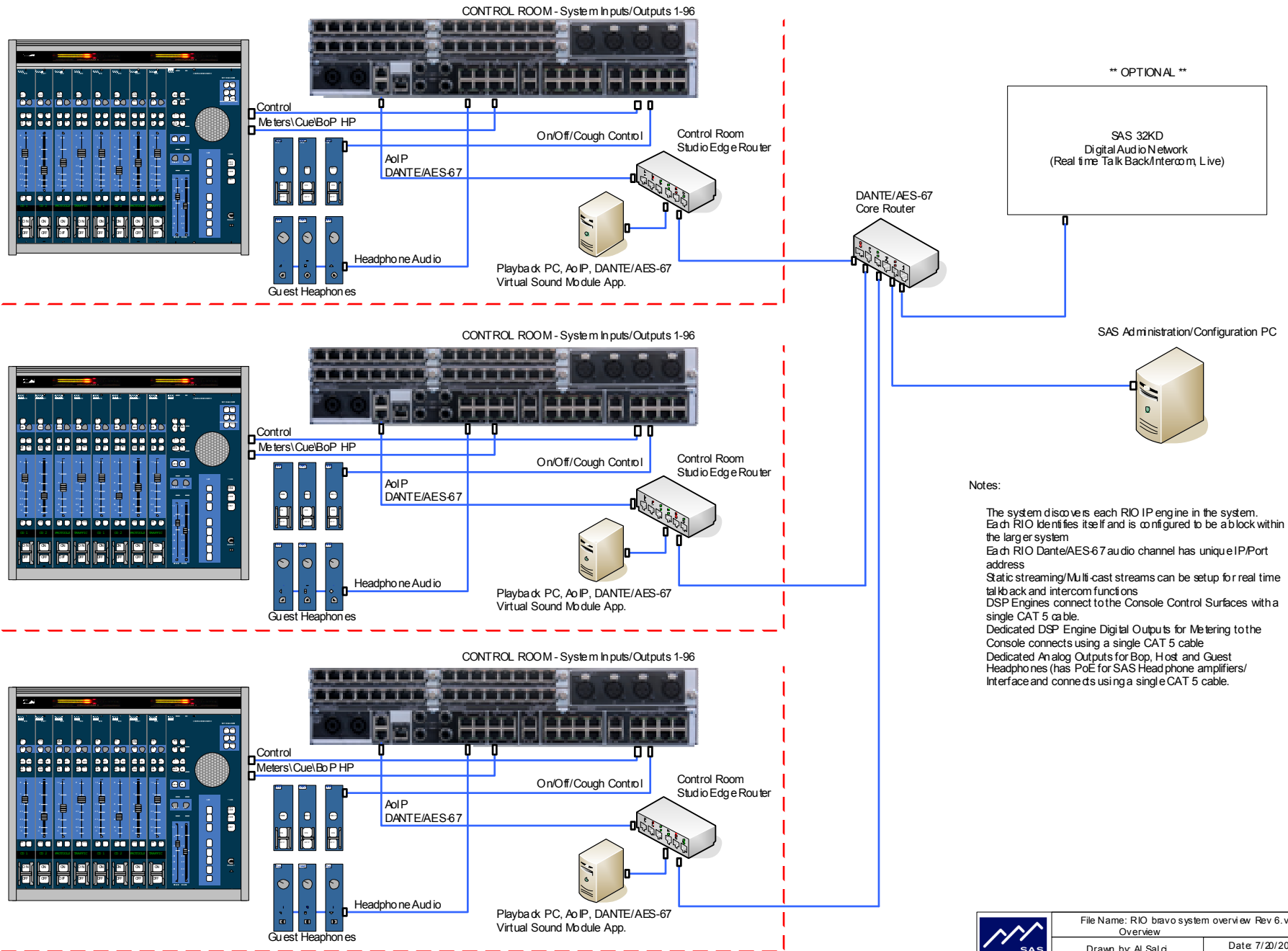


RIO BRAVO IP ENGINE
OVERVIEW

CONTROL ROOM SYSTEM OVERVIEW



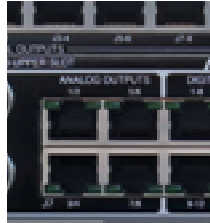
Notes:

- The system discovers each RIO IP engine in the system. Each RIO identifies itself and is configured to be a block within the larger system.
- Each RIO Dante/AES-67 audio channel has unique IP/Port address.
- Static streaming/Multi-cast streams can be setup for real time talk back and intercom functions.
- DSP Engines connect to the Console Control Surfaces with a single CAT 5 cable.
- Dedicated DSP Engine Digital Outputs for Metering to the Console connects using a single CAT 5 cable.
- Dedicated Analog Outputs for Bop, Host and Guest Headphones (has PoE for SAS Headphone amplifiers/Interface and connects using a single CAT 5 cable).

RIO BRAVO IP ENGINE
OVERVIEW

CONTROL ROOM SYSTEM OVERVIEW

On Board Analog
Outputs
For Head phones,
With PoE



RJ-45 D-Out	RIO Ch. #	Headphone Outputs
J 1-2	1	Studio Monito
J 3-4	2	Co-Host
	3	
J 5-6	4	Guest 1,2
	5	
J 7-8	6	Guest 3,4
	7	
	8	

Note: BoP not required here if
using I-SL or M-Class Console

On Board Analog
Outputs
For Headphones,
With PoE



R/D Ch. #	DANTE I/O	
	Outputs	Inputs
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
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18		
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21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		

R/D Ch. #	DANTE I/O-2	
	Outputs	Inputs
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
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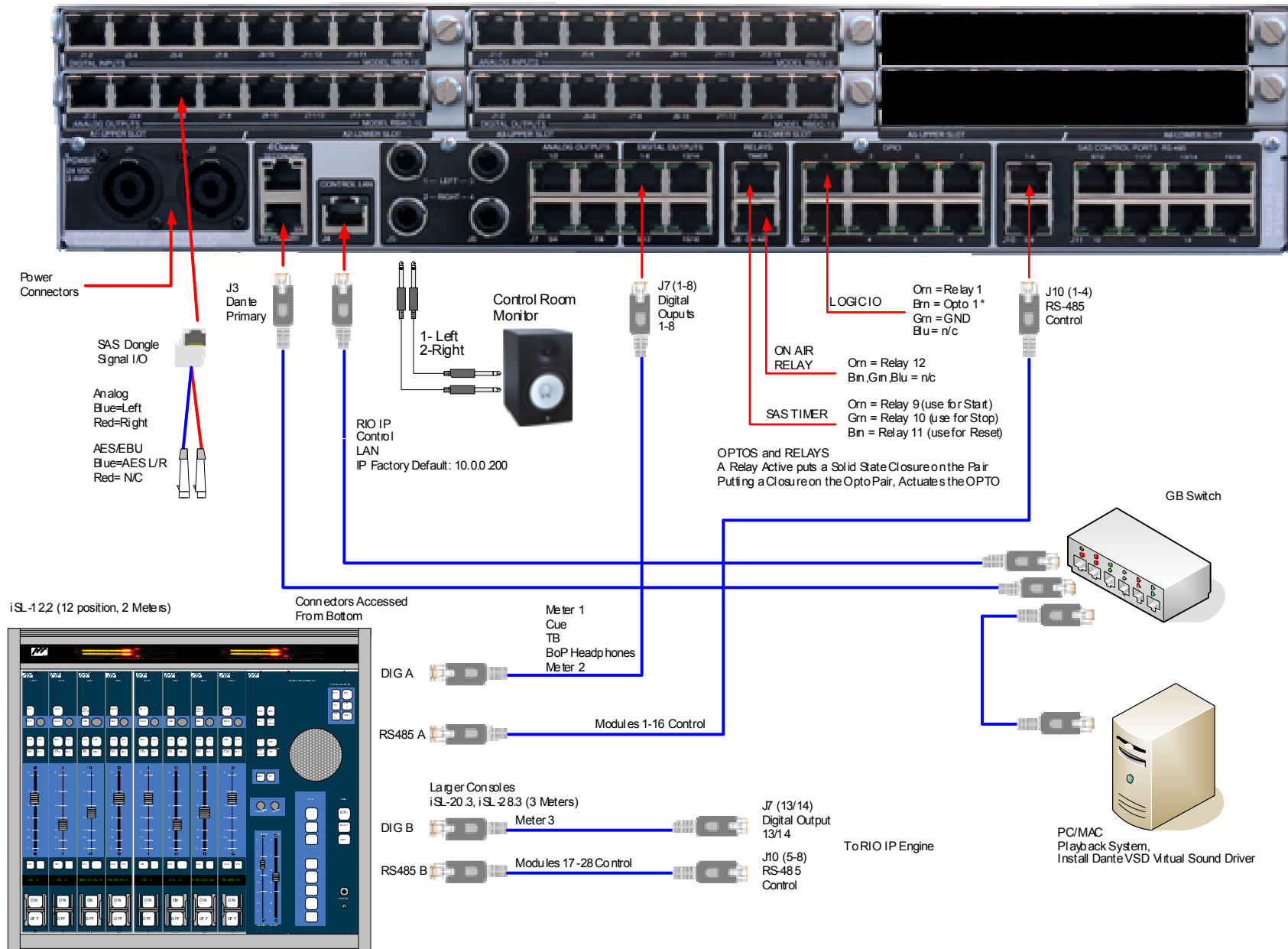


Monitor Speaker
CUE Speaker

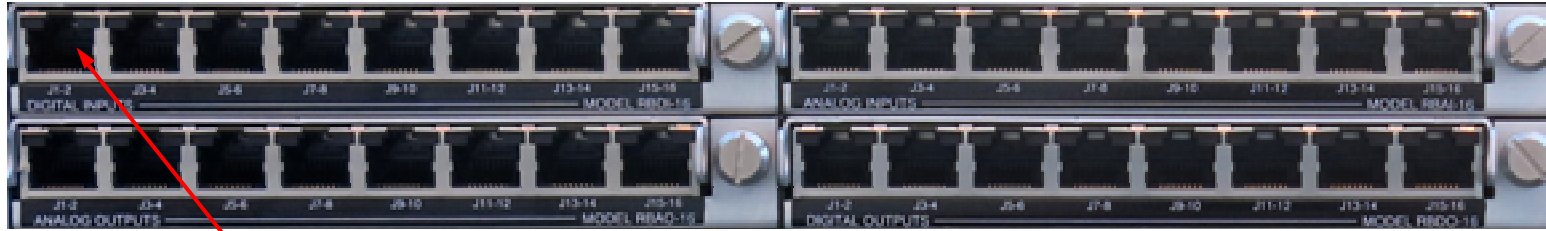


CONTROL ROOM SYSTEM OVERVIEW

Typical Console Interconnect



Option User Signal IO



Network Cable Pair Detail: (typ. 4 places)

ORN = Channel 1, typically Left (white stripe = Hi)
BRN = Channel 2, typically Right (white stripe = Hi)
GRN = GND
BLU = n/c



Analog
Blue=Left
Red=Right

AES/EBU
Blue=AES L/R
Red=N/C

TRS Fixed Outputs, 1,2,3,4



Balanced Audio Outputs
Suitable for connection to Power Speaker Studio
Monitors, CUE Speakers, or any Record Device



H, Lo, Shield

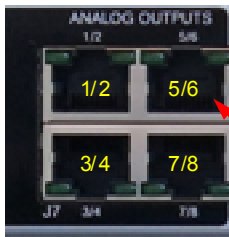
(These outputs also appear on RJ45 Below)

Audio signal outputs are available on option User Outputs, or Fixed Outputs.

External Monitors and Headphones can be brought out any Analog Output.

SAS has dedicated TRS connectors and CAT5 connectors with PoE to connect directly to an SAS Headphone Amplifier interface.

RJ-45 Fixed Outputs (with PoE)



Fixed Analog Output 1/2,3/4 appear also on Fixed TRS connectors shown above.

Fixed Analog Outputs 5/6, 7/8 are suitable to deliver Host/Guest Headphone Audio to SAS Headphone Amplifier Interface, (TP-HPV-1)



Network Cable Pair Detail: (typ. 4 places)

ORN = Channel 5, typically Left (white stripe = Hi)
BRN = Channel 6, typically Right (white stripe = Hi)
GRN = GND
BLU = 12v (for SAS Headphone Amplifier Interface)

SAS Headphone Amplifier Interface



Provides both 1/4" and Mini Headphone Jacks (Available in TURRET Mount also)

Additional Guests can be Daisy Chained (if Same Guest Audio)



Mic Arm LED Overview

From RIO Bravo

- Relay 1 (Mic LED)
- Relay 2 (Mic LED)
- Relay 3 (Mic LED)
- Relay 4 (Mic LED)
- Relay 5 (Mic LED)
- Relay 6 (Mic LED)
- Relay 7 (Mic LED)
- Relay 8 (Mic LED)

Block to Inject 12v for LEDs



CAT5 Cable has Relay (ORN Pair)
And +12v From Block

- To MIKA Biscuit Mic 1
- To MIKA Biscuit Mic 2
- To MIKA Biscuit Mic 3
- To MIKA Biscuit Mic 4
- To MIKA Biscuit Mic 5
- To MIKA Biscuit Mic 6
- To MIKA Biscuit Mic 7
- To MIKA Biscuit Mic 8

12 v Power Supply

