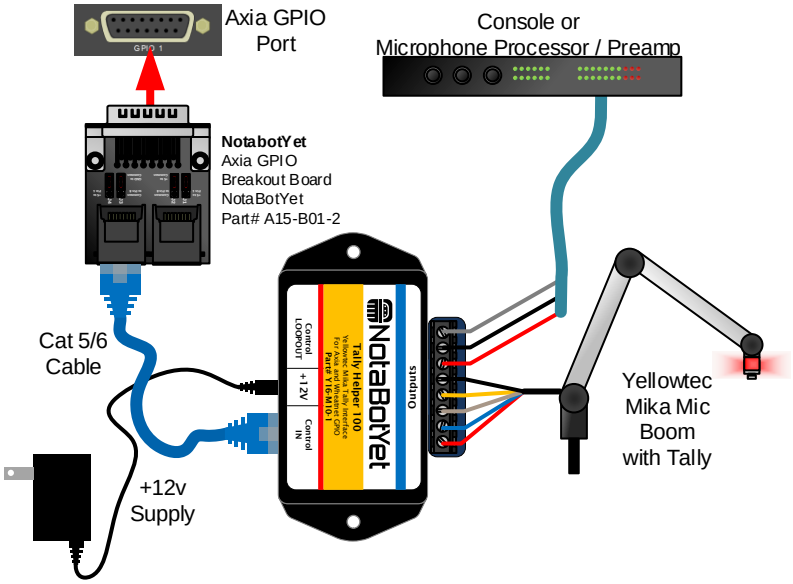
NotaBotYet

Tally Helper 100 for Axia GPIO and Wheatnet Logic
Part #Y16-M10-1



Installation Example

NotaBotYet
Tally-Helper 100 for
Axia GPIO and Wheatnet Logic
Part #Y16-T10-0

Purpose:
The NotaBotYet Tally Helper 100 was designed to make installation and operation of Yellowtec Mika microphone arms with integrated "On Air" signal simple and easy. The latest versions of the Mika arms have a signal that can be either red or white depending on the polarity of the wiring to the light. The Tally Helper 100 from NotaBotYet makes it easy to use either color on the fly, without rewiring. Control and choose the color indication using any simple GPIO signal from Axia, Wheatnet IP, or any other active low GPIO output including dry closures to ground.

Connections:
The board is designed to allow the 5 conductor cable that comes with the Mika microphone arm to terminate directly to the screw terminal strip. This allows for quick installation and also removal if needed (helpful for maintenance in a live studio!). The microphone signal is routed passively to the microphone output screw terminals where a microphone cable can be connectedand travel on to the audio console or microphone processor or preamp. The microphone ground is completely isolated from the circuit power ground to reduce the possibility of noise getting into the mic chain.

Control: Control Input to the board is a standard RJ-45 connector. The pinouts of this connector match the RJ-45 connectors on our NotaBotYet Axia GPIO Breakout Board (Part #A15-B01-2) or the RJ-45 connectors on any Wheatnet Logic port. However, if your plant is not using Axia or Wheatnet, any type of relay or open collector device that provides a closure to ground to trigger the inputs can be used to control the device, just match the input pinouts.

The 5 conductor cable from the Yellowtec Mika microphone arm simply connects to the designated screw terminals. The terminals are labeled by color and function to make this quick and easy. There are also designated terminals for a three conductor shielded microphone output cable that would be used to feed your preferred microphone preamplifier. The microphone lines simply loop through the device and the shield is isolated from the logic ground of the device so as not to induce noise.

The included +12V supply connects to the 2.1mm power connector.

Programmable Jumpers: the 6X3 pin header is used to determine which input bit will trigger which color on the Mika microphone arm. For example, putting a jumper between the "RED" column and the "COM" column on row 1 will make the Mika light turn red whenever input 1 is activated. If a Jumper is placed between the "WHT" column and the "COM" column on row 5, then the Mika light will turn white whenever input 5 is active. If the configured inputs are active for both a red and white at the same time, the light simply will stay off to avoid a conflict in polarity.

RJ45 Input Pinout: (Ground to Activate)

Pin Number	*EIA/TIA 568B Wire Color*
1 GND	Org/W
2 In 1	Org
3 In 2	Grn/W
4 In 3	Blu
5 In 4	Blu/W
6 In 5	Grn
7 In 6 (Wheatnet Logic Only)	Brn/W
8 No Connection	Brn

Output Pinout (TB Strip):
1 Mic + From Mika Microphone Arm
2 Mic- From Mika Microphone Arm
3 Mic GND Mika Microphone Arm
4 Tally + to Mika Microphone Arm
5 Tally - Mika Microphone Arm
6 Mic + Out to Mic Preamp
7 Mic - Out to Mic Preamp
8 Mic GND Out to Mic Preamp

Find more information and installation examples at www.notabotyet.com