NotaBotYet

ON-AIR 85
Universal 12V On-Air Light Controller for Axia GPIO and Wheatnet Logic
Part #A19-A85-0

Axia GPIO xNode

NotabotYet
Axia GPIO Breakout Board
NotaBotYet Part# A15-B01-2

Cat 5/6 Cable

ON AIR

Standard 12V On-Air light using less than 1A of current

+12v Supply
(Included)

Installation Example

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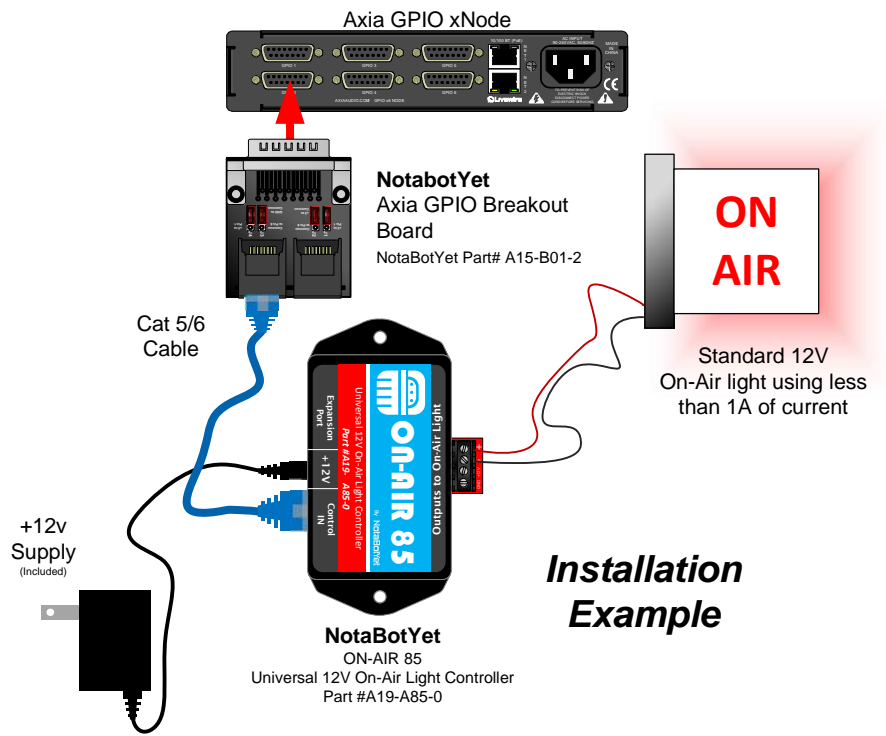
Purpose: The *ON-AIR 85* from NotaBotYet is designed for easy installation of on air lights powered by 12 volts such as offerings from common brands like American Recorders, Titus, Sandies, CBT, and other On-Air lights requiring 12 volts at 1 amp or less. (NOTE: THIS DEVICE IS NOT INTENDED TO DIRECTLY CONTROL 110V ON AIR LIGHTS.) The unit provides an interface to Axia GPIO, Wheatnet Logic, or any other open collector logic or dry relay closures to ground. In addition to standard "ON" and "OFF," a variety of flashing and pulsing programs are available based on the 4 input control lines (See Table 1). When coupled with Axia GPIO, or Wheatnet Logic, the end user could use those systems to program different flash patterns for different on-air scenarios. For instance, a steady "ON" could just mean "mics are live" but a triple strobe flash could mean "the studio is live on a network." Fifteen pre-programmed on and flashing patterns are available to the installer.

Inputs: Input to the board is via 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 allowing connection to those devices using a standard CAT 5/6 cable. However, if a facility is not currently using Axia or Wheatnet, any type of relay or open collector device that provides a closure to ground to trigger inputs can be made to work with the device. Just match the input pinouts! Furthermore, using various combinations of the 4 inputs can result in up to fifteen different on air flashing patterns or steady on (See Table 1)

Output: The outputs of the device are on a 4 position screw terminal strip and are labeled as to their function. There are "GND" and "+12V" terminals tied directly to the 12 volt power supply. These can be used as an input from the installers own 12 volt source or can be used to daisy chain device power (as long as the total current does not exceed 1 amp). Positive and Negative terminals meant to feed power to the user's on-air light device are also on this terminal strip.

In1	In2	In3	In4	Mode
Open	Open	Open	Open	Off
GND	Open	Open	Open	Steady On
Open	GND	Open	Open	Flashing
GND	GND	Open	Open	Triple Flash
Open	Open	GND	Open	Fast Flash
GND	Open	GND	Open	Triple Strobe
Open	GND	GND	Open	Half Brightness
GND	GND	GND	Open	25% Brightness
Open	Open	Open	GND	Pulse
GND	Open	Open	GND	Heartbeat
Open	GND	Open	GND	Double Pulse
GND	GND	Open	GND	Around the World
Open	Open	GND	GND	Slow Flash
GND	Open	GND	GND	Blink
Open	GND	GND	GND	Crazy Flash
GND	GND	GND	GND	SOS

Table 1. Light Mode based on inputs.

RJ45 Control IN Pinout:
Pin Number / EIA/TIA 568B Wire Color
(Ground to Activate)

1 GND	Org/W
2 Control In 1	Org
3 Control In 2	Grn/W
4 Control In 3	Blu
5 Control In 4	Blu/W
6 No Connection	Grn
7 No Connection	Brn/W
8 No Connection	Brn

Output Pinout (TB Strip):
1 GND
2 +12B (In or Out)
3 GND to On-Air Light
4 +12V to On-Air Light

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