IBus-Arduino Interface v2.5 Released under Creative Commons License CD Changer Attribution/Non-Commercial use only. Port in Boot http://creativecommons.org/licenses/by-nc/3.0/ 3 Wires: 2 Wires: **IBUS** +12V **IBUS Serial** +12V **IBUS Arduino Board GND** Module GND +12V In: **GND** In: IBUS +12V Out: set Output 2 High to **GND** allow incoming IBUS Data Out: Rx (Pin 9) IBUS Data In (Serial Pin 2) Tx (Pin 10) IBUS Data Out (Serial Pin 1) CTS (Pin 11) CTS (Input 3) Wired Outputs: 4 NPN Transistor Switched (Outputs 10, 11, 12, 13 prewired) Extra Outputs: 6 Digital Outputs open (Output 4, 5, 6, 7, 8, 9) Switched 8 Analog Outputs open Hardware (Analog 0, 1, 2, 3, 4, 5, 6, 7) **Devices**

Note: The Arduino looks for incoming Serial Data on Serial Pin 2 upon startup. If there is any serial data, the Arduino waits for a valid incoming program (called a Sketch) and will not complete boot up. Incoming IBUS data is gated via a NPN transistor, at startup, Output 2 is LOW so no serial data gets through. The Arduino then completes it's Boot and during program initiation sets Output 2 HIGH now allows incoming IBUS data.

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