

ipod-ibus Linbus V04

Self power off (not inverted)

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Parts list:

- (1) Arduino Mega
 - (1) MCP2025 Linbus Transceiver
 - (1) Optocoupler (LTV-826)
 - (1) 12V to 5V isolated power converter (RF1205CS-2W)
 - (1) Ipod Dock extension chord (not charge chord)
 - (1) Seeedstudios prototype board (STR104B2P) or similar
 - (1) diode
 - (1) Power transistor, 1A min capacity (Q2)
- Resistors as shown
Wire as needed

My Notes:

A_ipod_TX breaks the connection between Arduino and IPOD when power is off. otherwise it will drain The ipod battery.

R10 resistor tells the ipod it's in an IPOD dock

R1 and R9 reduce Arduino 5V output to 3.3V for ipod.
(R1 optional but adds more protection)

For R11-R14 values
Just need to be close.
Creating a voltage to send
on the USB to signal to
the ipod how much
Current it can draw
Charging. Aiming for 2V
2.75 one and 2.0 on other
may be needed for ipad.

