

Re: Auto switching power supply between USB power and external supply

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-04/msg04841.html>

- *From:* Rich Grise <richgrise@xxxxxxxxxxx>
 - *Date:* Tue, 26 Apr 2005 21:39:14 GMT
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On Tue, 26 Apr 2005 08:24:37 -0700, ganeshokade wrote:

- > Dear Friends,
- > We are on to designing a communication board based on the NEC V850
- > microcontroller that will have a USB port for communicating with a PC.
- > The board requires a supply voltage of 5V and draws at the most 300 ma
- > of current. We want to design the board to use two sources of supply –
- > one is from an external power supply if available and the other is from
- > the USB port. Power should be drawn from the USB port only if the
- > external power supply is not present. The circuit should be able to
- > sense this automatically. We have some ideas but each of them has one
- > or the other hurdle.
- >
- > 1) Use a connector for connecting the external power supply which will
- > mechanically disconnect the USB ports supply voltage when plugged in.
- > We are looking for a connector assembly (similar to the circular ones
- > present on most cell phones) that can do this job. The catch here is we
- > do not know a source. If we get to know a source, this is the most
- > acceptable option.

<http://dkc3.digikey.com/PDF/T051/0273-0277.pdf>

Cheers!

Rich

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- *Follow-Ups:*
 - ◆ ***Re: Auto switching power supply between USB power and external supply***
◇ *From:* ganeshokade
- *References:*
 - ◆ ***Auto switching power supply between USB power and external supply***
◇ *From:* ganeshokade

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