



**I2C\_EXT\_CTRL** values set on the local (controller) side pin propagate to the remote side CTRL pin over the differential link. It can be used as an INT and or GPIO signal. On the remote (peripheral) side, CTRL is not driven at startup until the differential link is established. Can be unconnected if unused.

**I2C\_EXT\_RDY** I2C ready status open-drain output. Signal is driven low after the LTC4331's I2C interface has joined the bus. Use to detect when the LTC4331's control interface is available in the absence of a connected link. Signal has a weak internal pull-up to VCC and is only valid when in local (controller) mode. In remote (peripheral) mode the pin can be unconnected.

**SPI\_EXT\_INT** remote to local interrupt. **INT** is an open-drain output in local mode and an input in remote mode. Values set on the remote side **INT** propagate to the local side **INT** pin. In addition, **INT** is the level-sensitive active low interrupt signal for the LTC4332's control interface. See LTC4332 datasheet for additional details.

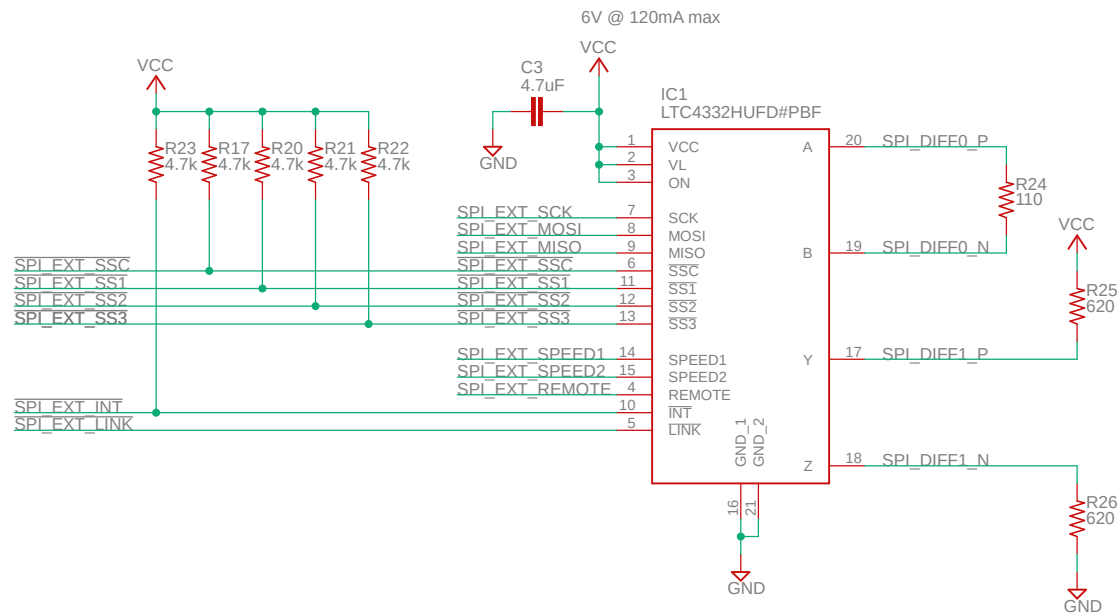


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NOTE: In order to communicate between two LTC4332 devices,  
1. Must be configured in local mode and the other in remove mode. See configs page.  
2. The differential link must route as follows between the two devices,  
LOCAL A, REMOTE Y  
LOCAL B, REMOTE Z

## SPI BUS EXTENDER

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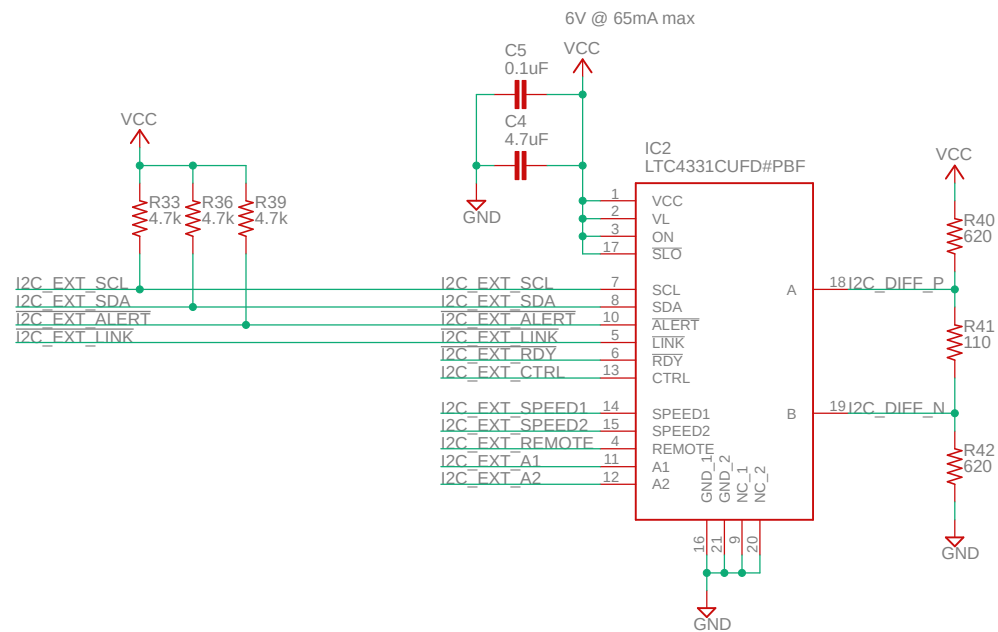
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## I2C BUS EXTENDER

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