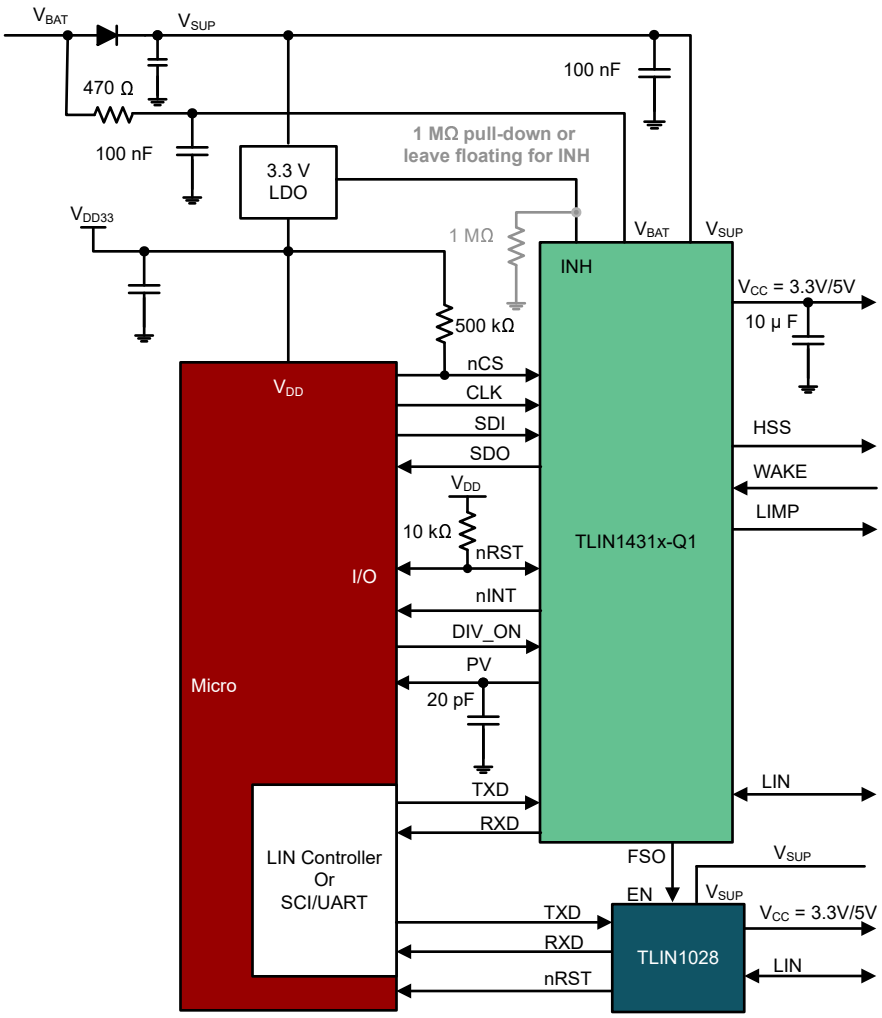

Figure 8-21. Channel Expansion: LIN SBC

8.3.23.2 Channel Expansion for CAN Transceiver

It is possible to add an external CAN transceiver or general purpose CAN SBC. For a simple CAN transceiver, the 5 V VCC from the TLIN14315-Q1 can power the external transceiver. When the TLIN14315-Q1 enters sleep mode the LDO is turned off which turns off the 5 V to the transceiver. There are other instances that this can take place depending upon various fault conditions like thermal shut down. Using the 3.3 V version of the device can power a 3.3 V CAN transceiver. If an external general purpose SBC is used, VCC can be used to power up other components as the SBC will also receive its input power from V_{SUP}. The FSO pin when configured as a general-purpose output pin is used as the STB/nSTB/S control pin in order to control the mode of the external CAN transceiver or SBC.

- Register 8'h29[3:1] = 110b sets the FSO pin as a general-purpose output pin EN/STB/nSTB/S pin.
- Register 8'h29[4] sets the level of the FSO pin and can be connected to the external CAN transceiver or SBC STB/nSTB/S pin.