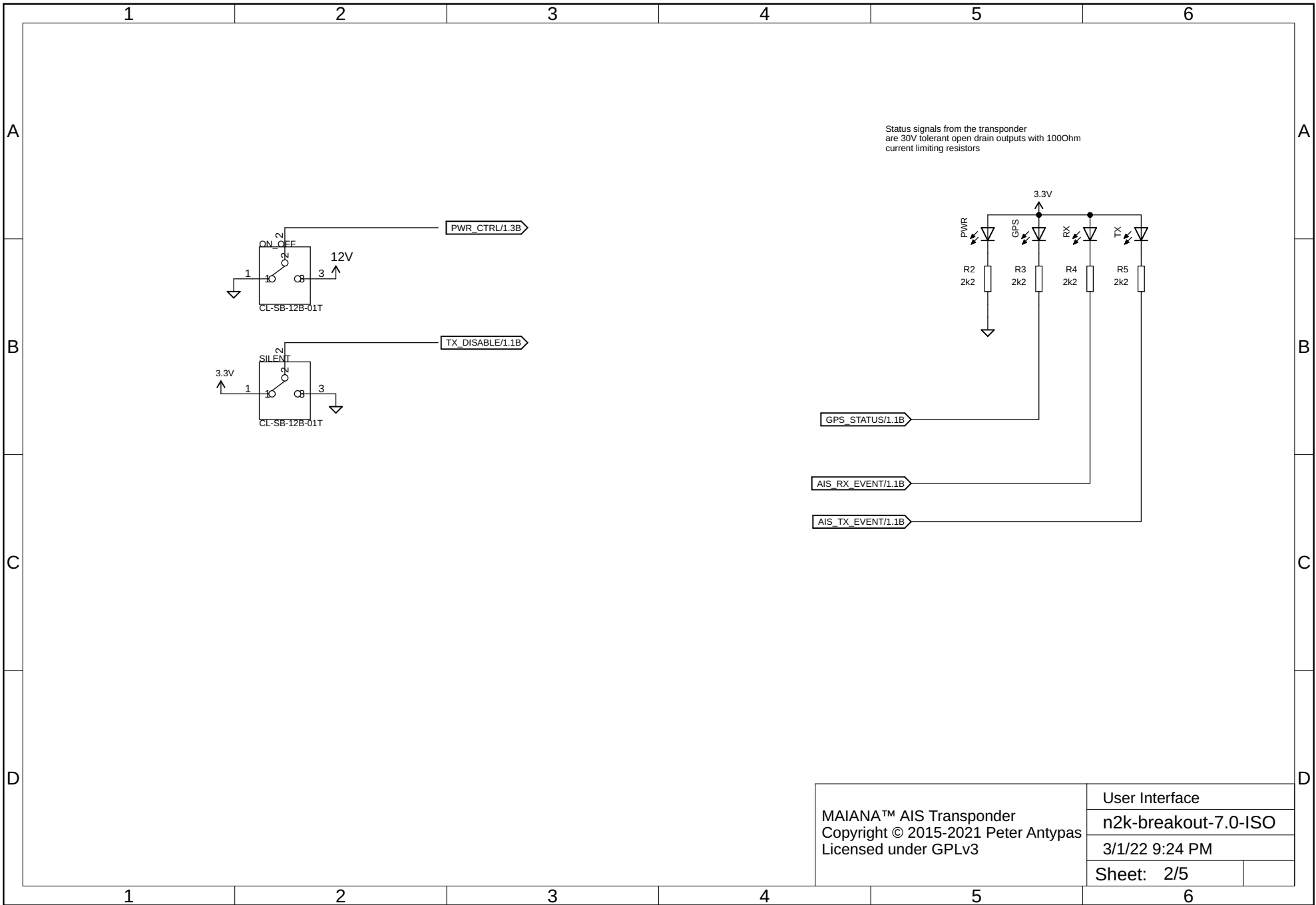
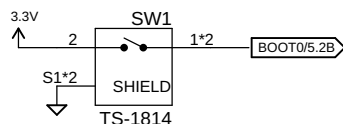
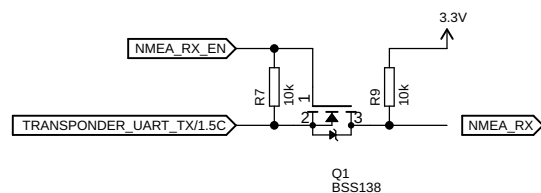


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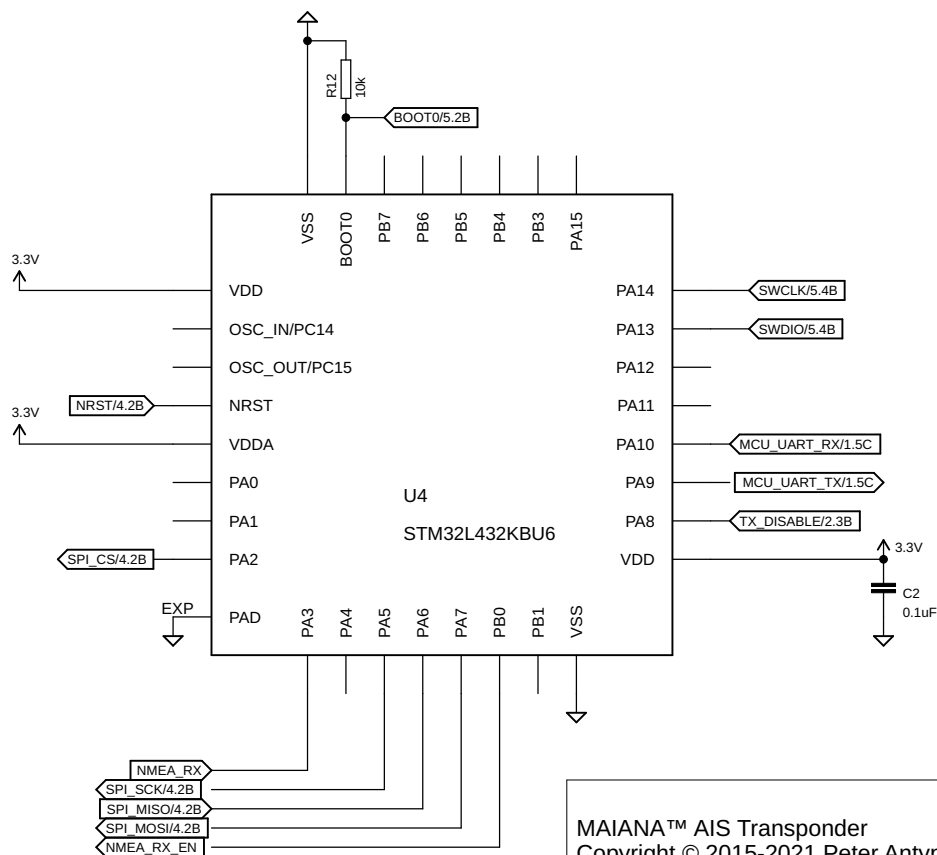


The UART signals to and from the transponder flow through this circuit to the isolator and USB adapter. The TX signal from the transponder is branched to the MCU as well via a firmware controlled MOSFET switch (Q1).

When the local MCU runs NMEA2000 application firmware, PA9 and PA10 are high z inputs, so nothing disturbs the normal flow of data between the transponder and the USB host.

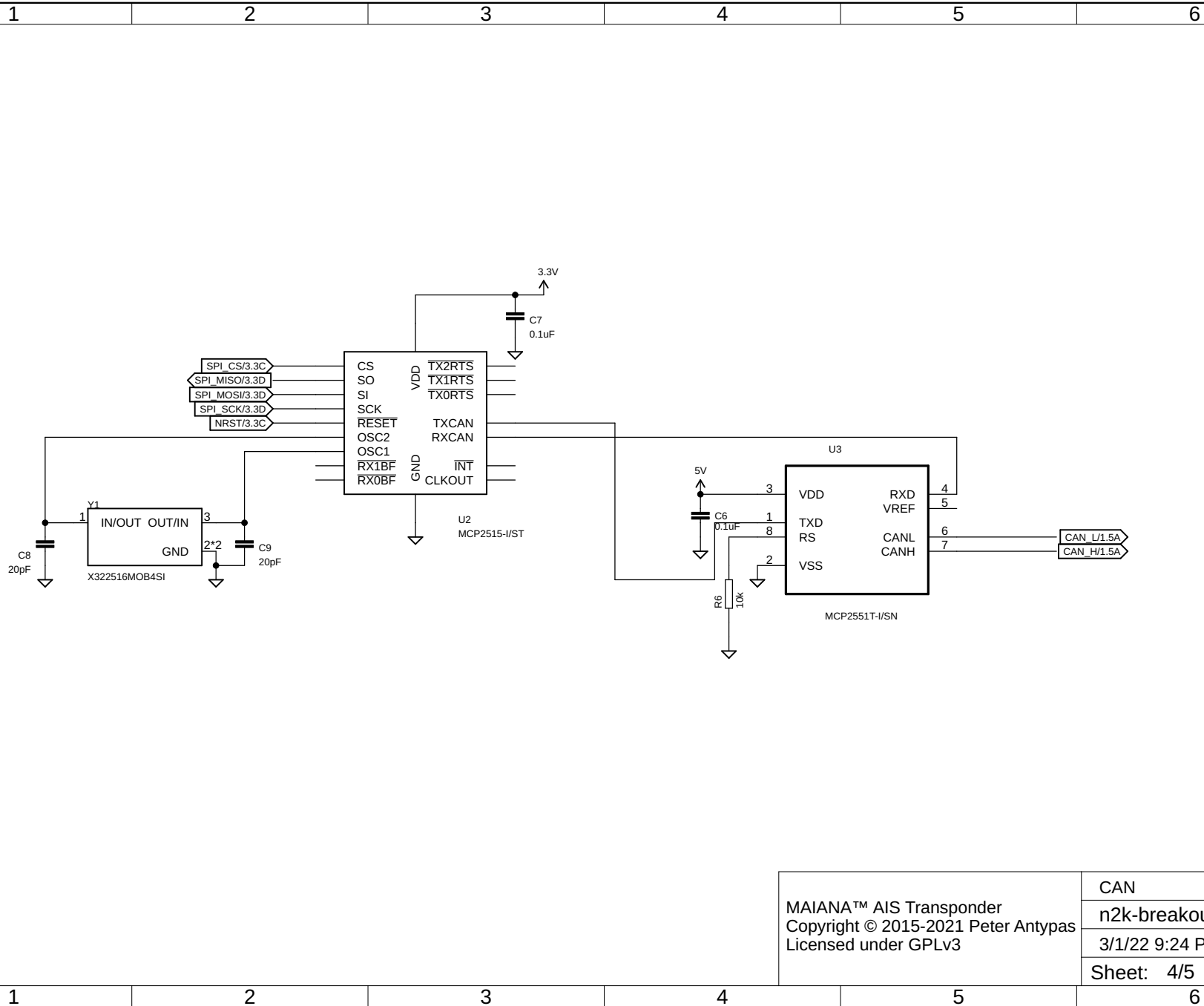
For DFU with the ROM bootloader, the remote unit must be disconnected.

This scheme negates the need for a UART multiplexer.

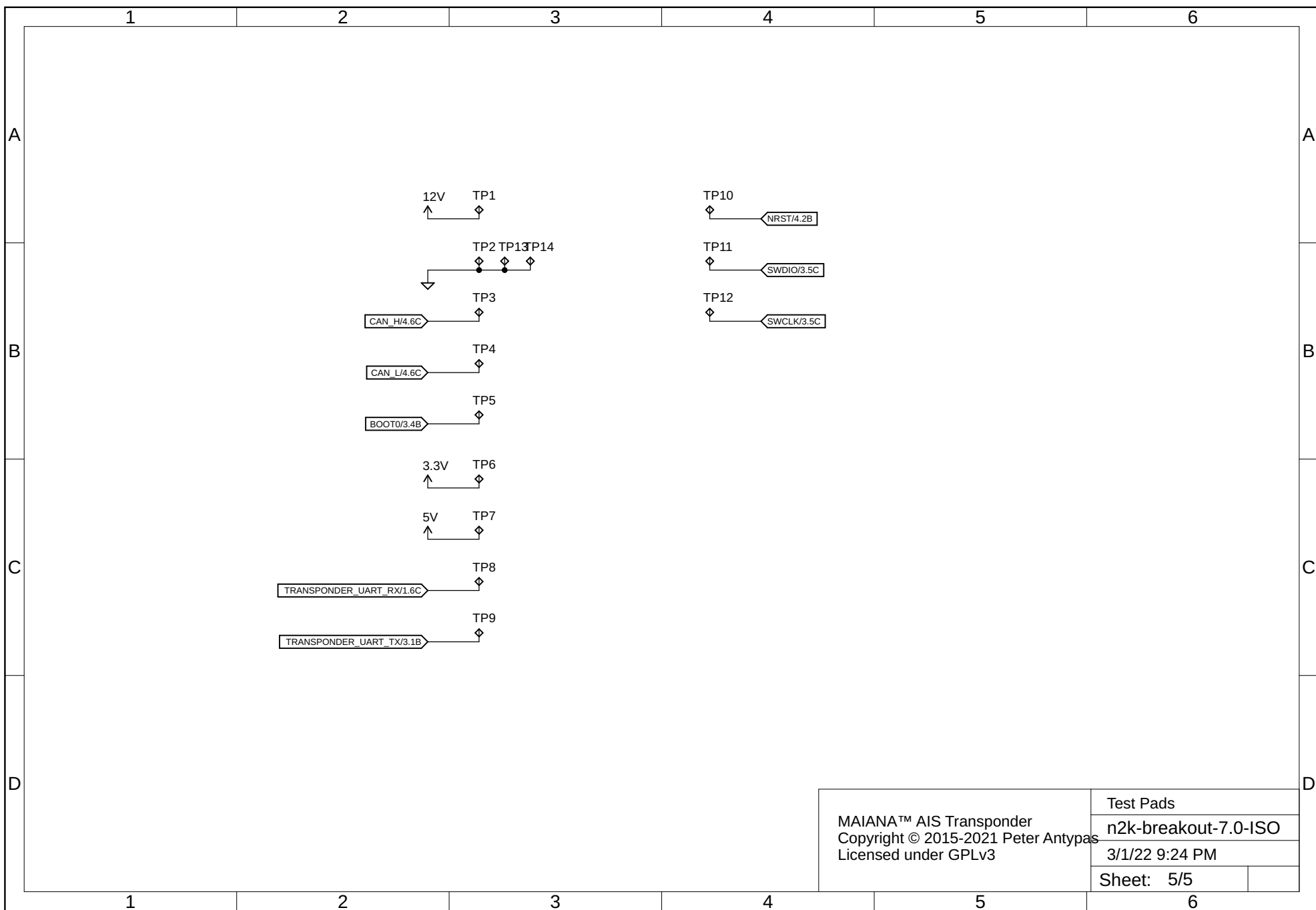


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MCU	
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Test Pads	
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