Title: RT sees the message OK; BC reports no response from RT
Date: 12 Apr 2022
Card/Board/Module: 1553Px family modules
Operating System: all

Question:

My module is running as BC.
- I created a 1553 bus list and transmitted the messages to some module or card running as RT.
- The RT reports that it got the messages OK.
- The BC reports (Message Status Word) that the RT did not respond in time (0x8201).

Help !

Answer:

We understand the case as follows:
- The RT receives the command from the BC, and records that it responded with the correct RT status word.
- However, the BC does not see the RT response.

Please check that
- this is the **only** RT (with this RT number) connected on the bus
- you have connected **78 Ohm termination** to the ends of the 1553 bus
- the modules on the 1553 bus are connected with the appropriate **coupling** method, such that the dip switch settings on the 1553Px module on the card match the actual coupling method, transformer coupled, or direct coupled (as per the User's Manual, section 7.3)
- **cable length**, how long is the cable from the stub to the bus (the specification suggests: for direct coupling less than one foot; for transformer coupling up to 20 feet)