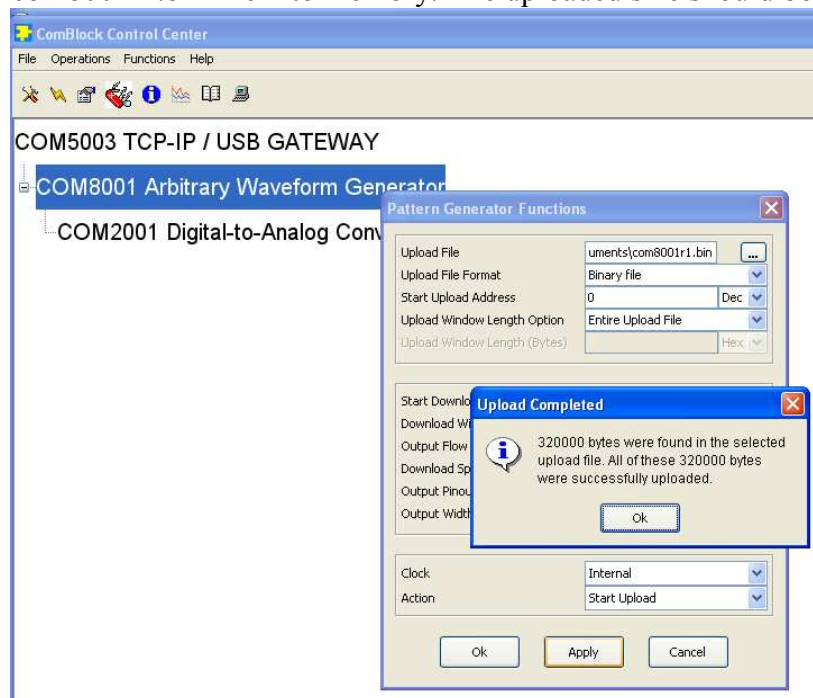


COM-8001 + Matlab Arbitrary Waveform Generator Troubleshooting

1. From Matlab, run the matlab program com8001r1.m
Check that the size of the resulting file generated (com8001r1.bin) is 313KB.
2. Check the memory underneath the COM-8001 module. It should be well seated (if not, reseal it). It should be a 256MB memory module.
3. Check the COM-5003 firmware option (click on the swiss army knife button).
The selected personality index should be 2 (when using USB data transfers) or 3 (when using TCP-IP/LAN data transfers).
4. Load the com8001r1.bin file into memory. The uploaded size should be 320000 bytes.

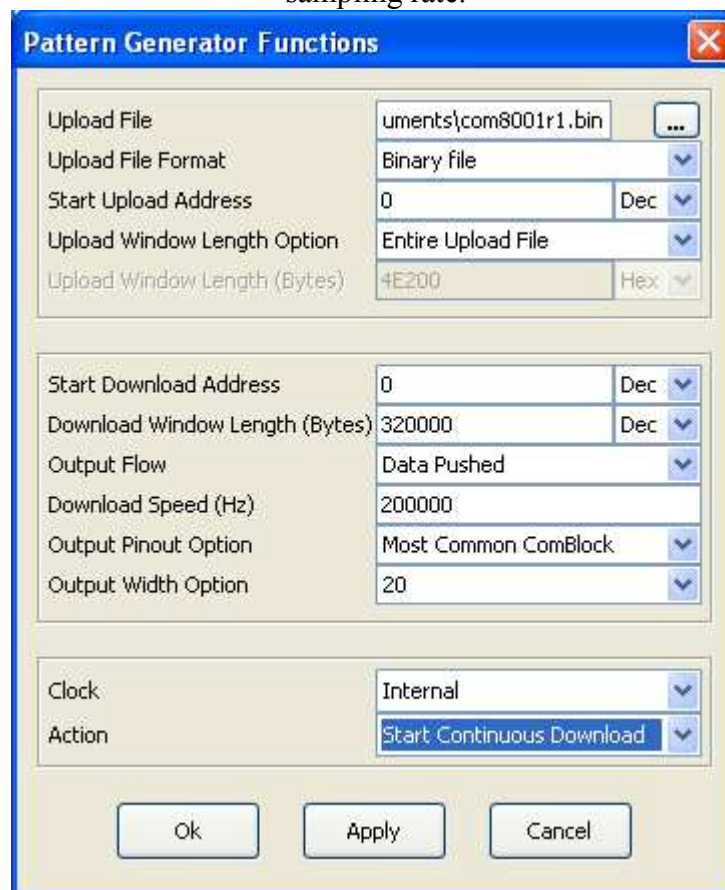


5. Playback one (Start single download action). Close the Pattern generation function window. Open the COM-8001 status (blue I button). The read checksum in status registers 31/32 should match the write checksum in status registers 33/34. If not the

memory is corrupted.



6. Playback the waveform (Start continuous download action) at 200 KSamples/s output sampling rate.



7. Using an oscilloscope, verify that the waveform output is a clean 1 KHz sinewave at the COM-2001 SMA outputs.