Considerations and changes in converting Xtium-CL-MX4 to Xtium2-CL-MX4 frame grabbers

This document outlines changes required to adopt the Xtium2-CL-MX4 (PN:OR-A4C0-XMX00) in replacement of the Xtium-CL MX4 (PN: OR-Y4C0-XMX00) from Teledyne Dalsa:

1. The Xtium2-CL MX4 uses a different driver than Xtium-CL MX4.
   The Xtium2-CL MX4 driver will <u>not</u> be available on the Teledyne website. For the latest driver version, please contact TDI_US_Support@teledyne.com.
2. In a Sapera application the frame grabber Server Name which is referenced will be different.
   This will change from "Xtium-CL_MX4_1" to "Xtium**2**-CL_MX4_1".
   This should be the only change required to existing application code.
3. In some cases, loading CCFs created for Xtium-CL MX4 directly to Xtium2-CL MX4 may not work.
   These CCFs will need to be re-created for Xtium2-CL MX4 in CamExpert.
4. The Xtium2-CL MX4 is a physically longer board. It is the same size as other Xtium2 frame grabbers, approx. 4" x 6.5", as opposed to the Xtium-CL MX4, approx. 4" x 4".
5. The Xtium2-CL MX4 and Xtium-CL MX4 boards have different power requirements. For most standard PC power supplies this should not be an issue, but should be a consideration when custom power supplies are in use;
   Xtium-CL MX4:

Power Requirements during Acquisitions

PC Voltage	Rev A1	Rev A2/A3/Bx
+3.3V	0.9A	N/A (Regulator used to generate the 3.3V from 12V)
+12V	0.54A	0.80

Xtium2-CL MX4:

Power Requirements during Acquisitions

PC Voltage	Power Consumed
+3.3V	4.5 W
+12V	4.7 W

6. The I/O connector pinouts, requirements, and locations are the same between the two boards.