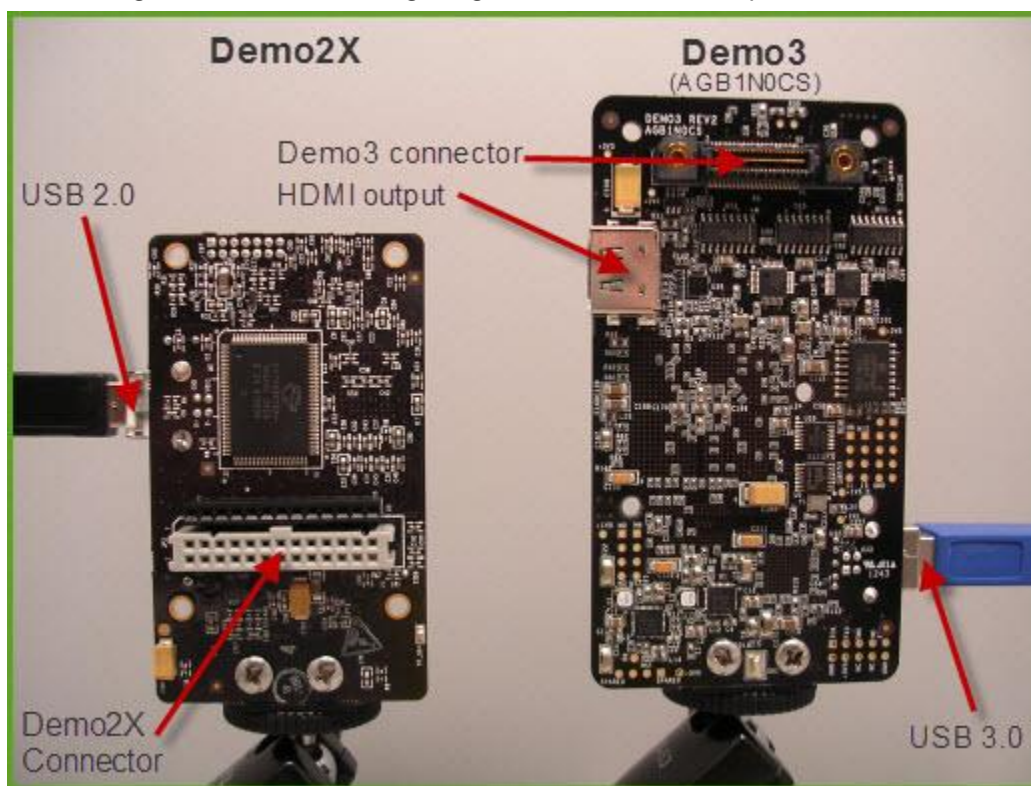

Aptina Demo3 Demo Kit

Aptina has developed a new demo kit called the Demo3 (AGB1N0CS) which replaces the previous version called the Demo2X. The primary improvement with Demo3 is that it now utilizes USB 3.0 instead of USB 2.0, this provides higher bandwidth from the camera to the PC (raw bandwidth for USB 3.0 is 5 Gb/sec). The Demo2X will continue to be supported as it remains completely adequate for lower bandwidth sensors.

The Demo3 baseboard sends sensor image data to the host computer through a high-bandwidth USB 3.0 interface as well as to an external HDMI monitor (if using supported co-processor). It takes single/dual/quad MIPI interface, dual/quad lanes HiSPi interface, CCP, and parallel interface from the sensor headboard, which eliminates the need for additional receiver boards. The board has 1G Bit memory for buffering frames before sending image data to the host computer.



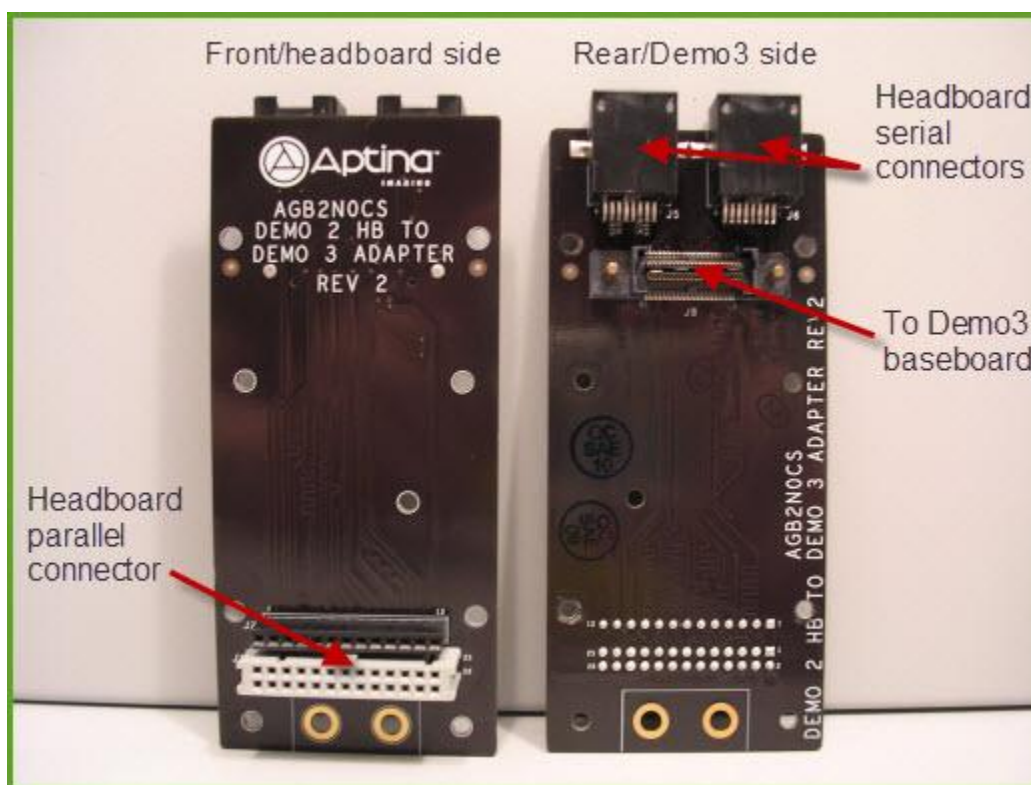
Comparison of Demo baseboards

Another improvement of the Demo3 is its high speed connector which supports all supported interfaces (parallel, MIPI, CCP and HiSPi) eliminating the need for additional cabling when using a Demo3 style headboard.

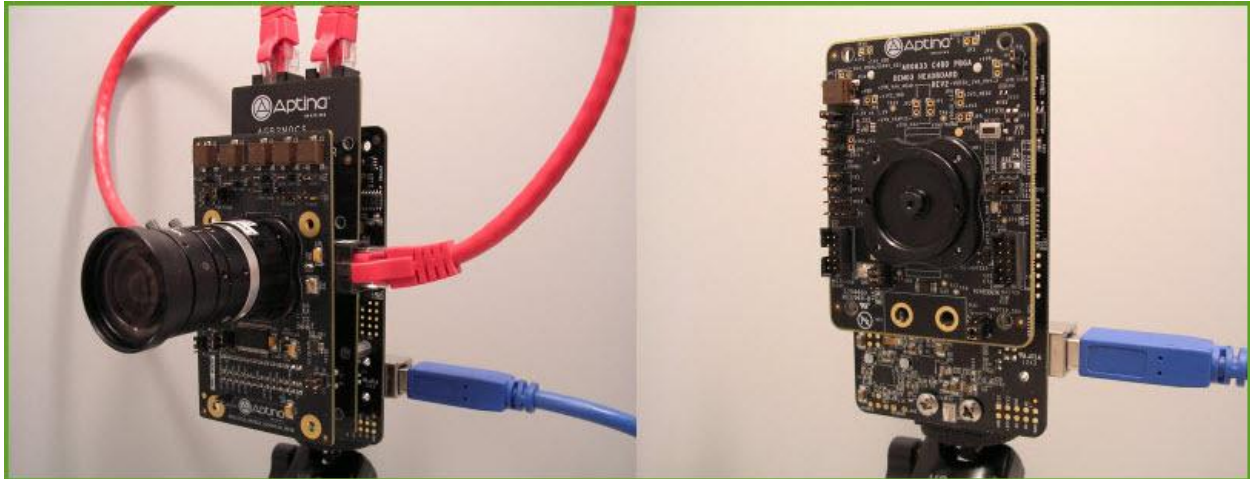


Demo3 interface connector (left: headboard side, right: baseboard side)

This also means that all Demo2X style headboards need to use an adapter (AGB2N0CS) to attach to the Demo3 connector. Note that all future headboard designs will use the Demo3 connector so an adapter won't be necessary with Demo3.



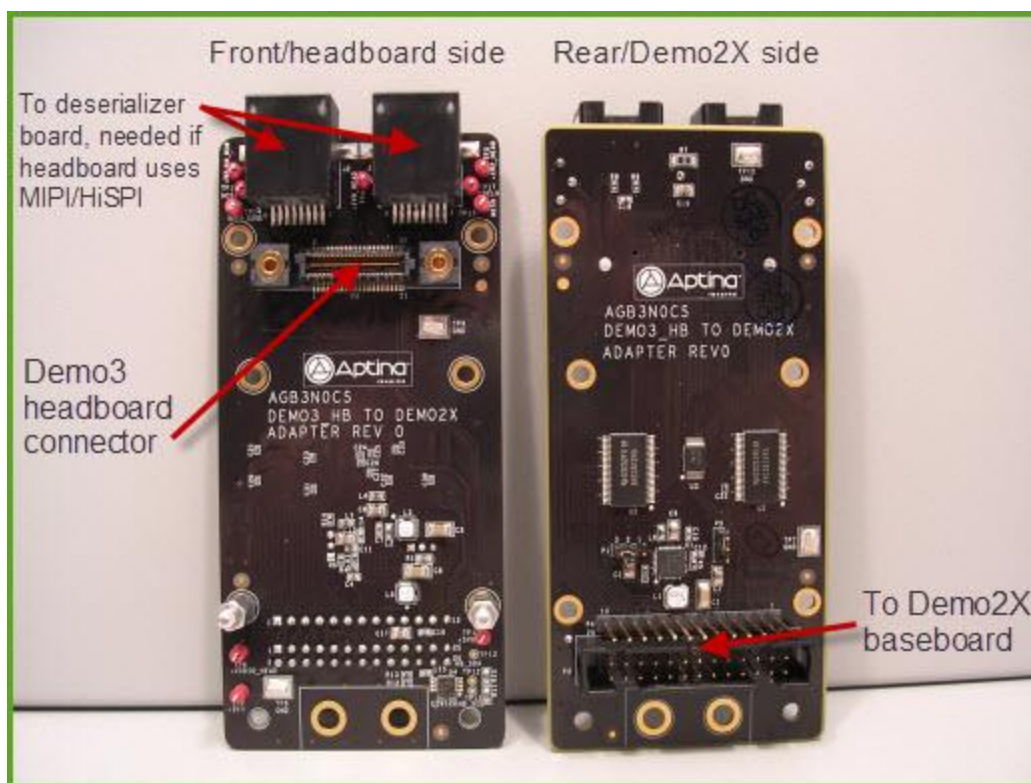
Demo2 headboard to Demo3 adapter (AGB2N0CS)



Left: Demo2X headboard + adapter + Demo3 baseboard (additional cabling required for serial interfaces)

Right: Demo3 headboard and baseboard (no additional cabling required for all supported interfaces)

We also have an adapter that allows you to use a new Demo3 style headboard on an existing Demo2X baseboard:



Demo3 headboard to Demo2X adapter (AGB3N0CS)

Compatibility and supported modes

Please see the following document (TBD) in order to see the matrix of configurations tested/supported with Aptina sensors and co-processors; and see (TBD) for information on supported USB3 host controller chips.

Demo3 drivers are currently provided for WindowsXP and Windows7.

Ordering Information:

- **Demo3** (AGB1N0CS); the Demo3 baseboard. Its connector supports parallel, MIPI 2/4 Lane, and HiSPi connection without the need of the RJ45 cabling required for Demo2X-style connector and auxiliary board.
- **Demo2X headboard to Demo3** adapter (AGB2N0CS); connect old-style headboards boards to a Demo3
- **Demo3 headboard to Demo2X** adapter (AGB3N0CS); connect new-style headboards to a Demo2X