1: The current BIOS only supports G2, 2<sup>nd</sup> Generation Core processors also known as Sandy Bridge processors.

2: The BIOS update supports G2 and G3, 3<sup>rd</sup> Generation Core processors also known as Ivy Bridge processors.

3: The J2 680/680L both support Intel G2 and G3 Desktop Socket 1155 processors with this new BIOS.

4: Existing units can have the BIOS updated using the Intel BIOS utility but is most case there is no reason to do this. 5: New units with the new BIOS can be ordered with either G2 Sandy Bridge or G3 Ivy Bridge processors.

6: With the new BIOS and using a G2 Sandy Bridge processor no changes will be required to master software images.

7: If using a G3 Ivy Bridge processor the <u>Video Driver of a master software images must be updated</u>. Other drivers remain the same.

## Processors:

Migration of Sandy Bridge to Ivy Bridge Processors J2 680	
G2 Sandy Bridge CPU	G3 Ivy Bridge CPU
G540 2.5GHz	G1620 2.7GHz
i3-2120 3.3Ghz	i3-3220 3.3GHz
i5-2400 3.1GHz	i5-3550S 3.3GHz
i7-2600 3.4GHz	i7-3770 3.4GHz

Migration of Sandy Bridge to Ivy Bridge Processors 680L	
G2 Sandy Bridge CPU	G3 Ivy Bridge CPU
G550T 2.2GHz	G1620T 2.4GHz
	i3-3220 3.3GHz *

1: All Processor are in the Intel embedded road map except for the G550T and the G1620T.

2: The G550T is EOL but we currently have 1500 pieces in stock. Must change to the G1620T soon.

3: Transition(s) to G3 Ivy Bridge processor to be determined by J2 management.

4: Even though Sandy Bridge processor are in the embedded road map they are no longer available on the retail market.

5: Ivy Bridge processor are still available on the retail market put will not be within one year.

6: Processors need to be bought though an Intel OEM. This requires good sales forecasting.

7: Processors can be swapped around on units but there is a cost to this plus this type of handling can cause quality problems.

8: \* the i3-3220 processor is a 55W TDP part and there are some limitations on the configuration to insure max 680L loading is below 120 Watts.

9: The G3 Ivy bridge has <u>faster Graphic and processor</u> performance then the G2 Sandy Bridge.

1

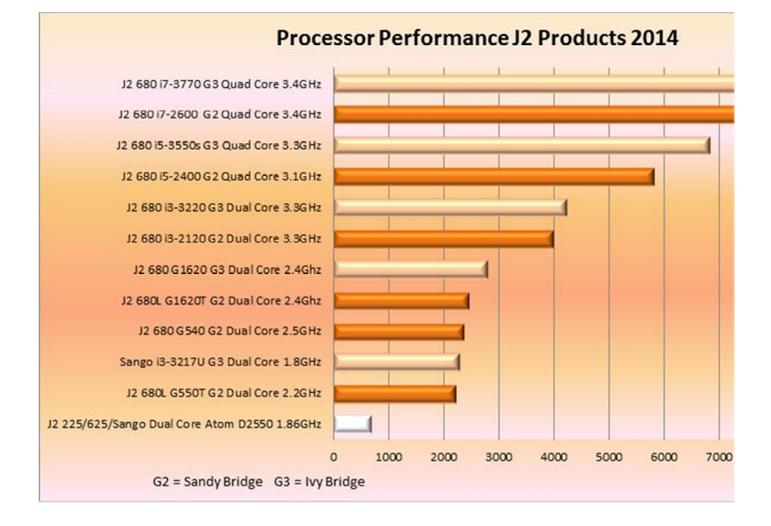
10: <u>The cost is the same</u> for the equivalent Ivy Bridge processor from the Sandy Bridge processor.

11: All embedded processor are available from 7 years after the release date. The release date can be found at: <a href="http://ark.intel.com/">http://ark.intel.com/</a>

General:

1: The only difference between the 680/680L Ivy Bridge and Sand Bridge unit is the socketed processor. No other part change but it does need the newer BIOS to use the Ivy Bridge CPU.

2: For software only the Video Driver is different to use Ivy Bridge. No change for Sandy Bridge. All other drivers are the same.



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