

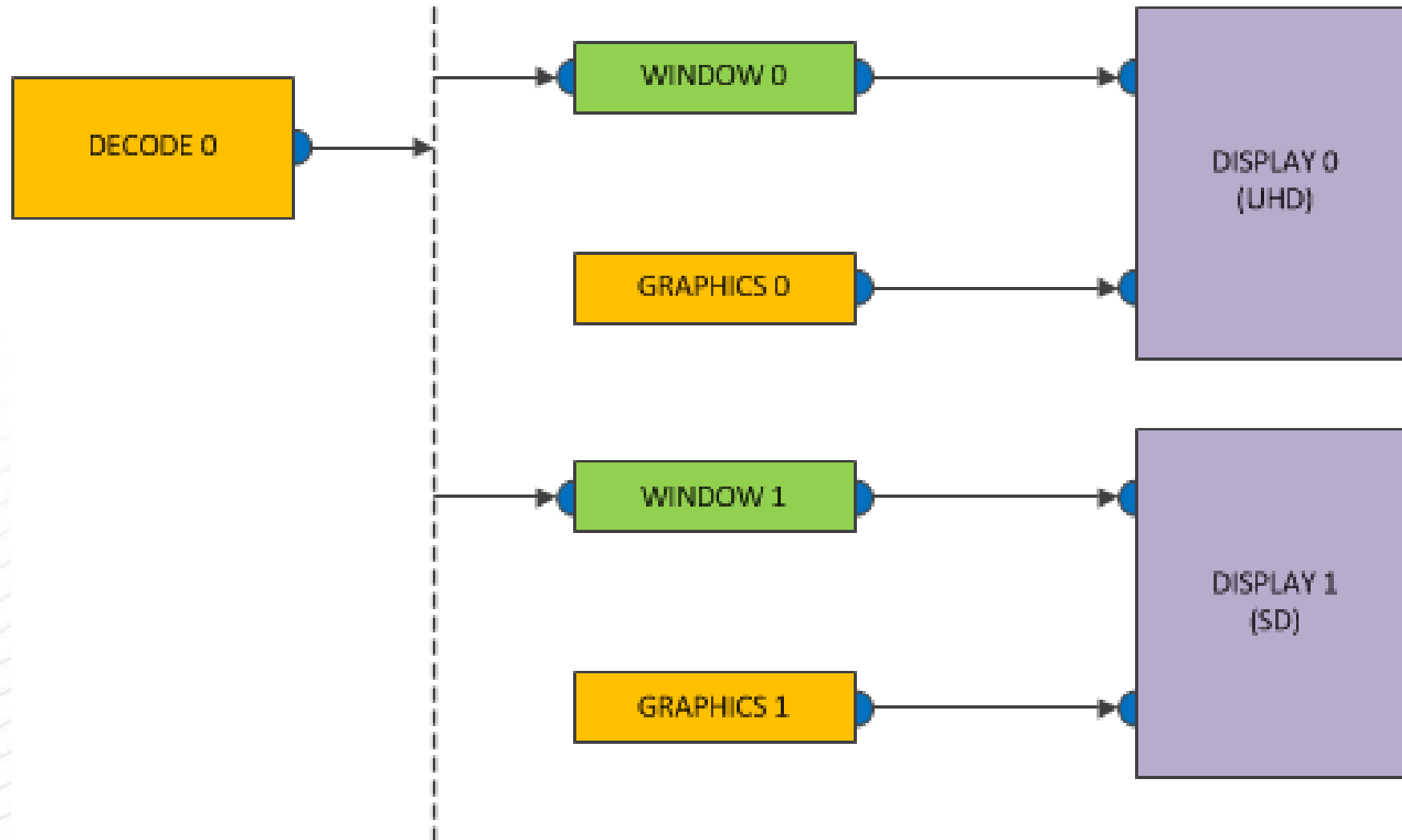
BOX MODE #8

7250



- **Required memory speed: 1x 16-bit DDR3-2133**
 - No high-temperature refresh
- **Features**
 - Multi-PIP decode (2x)
 - 1080p30/60i 8-bit HEVC / AVC / MPEG
 - UHD + SD display
 - No transcode

POSSIBLE VIDEO ROUTINGS



- **For each source, you may toggle between any of the provided options.**
 - Only one option enabled at a given time.
- **Decode 0**
 - Multi-PIP mode (2x):
 - 1080p30/60i 8-bit HEVC / AVC / MPEG
- **Graphics 0 (UHD)**
 - 1080p60 32-bit ARGB
- **Graphics 1 (SD)**
 - 480p60 32-bit ARGB
 - 576p50 32-bit ARGB

- **Window 0 (MAIN / UHD)**

- Multi-PIP mode (2x)
 - First context (lowest Z-order)
 - 1080i60 de-interlacing
 - Up to full-screen display
 - Second context
 - No de-interlacing
 - Up to $\frac{1}{2} \times \frac{1}{2}$ screen

- **Window 1 (MAIN / SD)**

- Multi-PIP mode (2x)
 - Up to full-screen for first context
 - Up to $\frac{1}{2} \times \frac{1}{2}$ screen for second context

- **The use of multi-PIP to replace MAIN + PIP is very restrictive.**

- The API for multi-PIP does not give the same controls as available for MAIN + PIP
 - Limited clipping, no aspect-ratio correction, ...
- There are also limits in hardware on what can be done in this mode as we have to share a single video path to support both video paths
 - No blending, no brightness/contrast/saturation controls, no letterbox detection, ...

- **Only use this box mode if application is capable of limiting themselves to the controls defined with the current multi-PIP APIs.**

- **Display 0 (HD)**
 - 3840x2160p60
 - Through 1920x1080p60 up-scaling
- **Display 1 (SD)**
 - 480i60
 - 576i50