

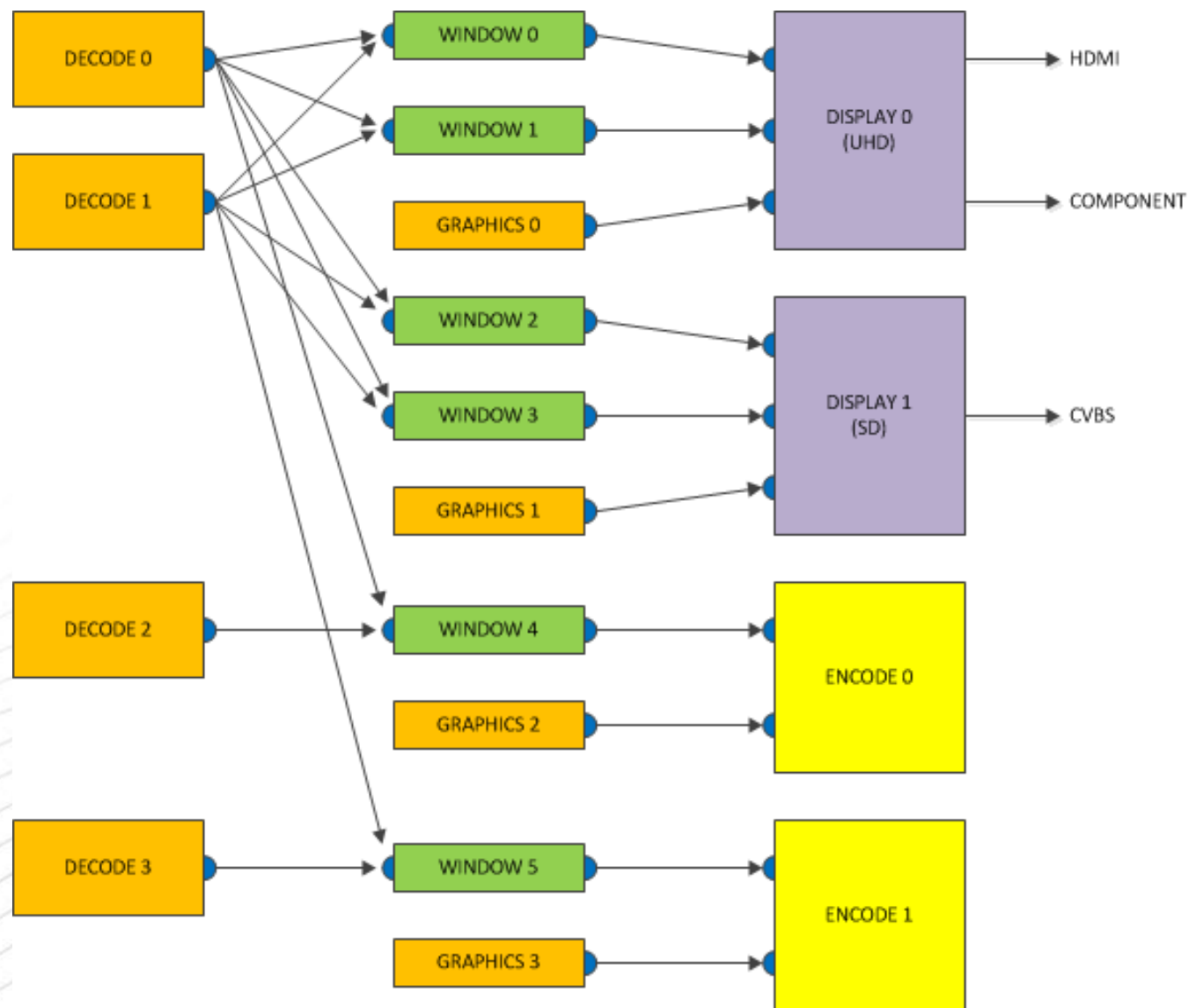
BOX MODE #2

7439 Bx



- **Required memory speed: 2x 32-bit DDR3-2133**
- **Features**
 - Single source mode:
 - 3840x2160p60 10-bit HEVC
 - 3840x2160p60 8-bit VP9
 - 1920x1080p60 8-bit AVC
 - MAIN + PIP mode:
 - 1920x1080p30 / 60i 8-bit HEVC / VP9 / AVC
 - UHD + SD
 - Two transcodes
 - 1920x1080p30 / 60i 8-bit HEVC / VP9 / AVC source
 - 720p60 8-bit AVC encode
 - 720p60 32-bit ARGB graphics
 - No multi-PIP

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**
 - Single source mode:
 - 3840x2160p60 10-bit HEVC
 - 3840x2160p60 8-bit VP9
 - 1920x1080p60 8-bit AVC
 - MAIN + PIP mode:
 - 1920x1080p30 / 60i 8-bit HEVC / VP9 / AVC
- **Decode 1**
 - **Must be inactive in single-source mode**
 - MAIN + PIP mode:
 - 1920x1080p30 / 60i 8-bit HEVC / VP9 / AVC
- **Decode 2 (Transcode)**
 - 1920x1080p30 / 60i 8-bit HEVC / VP9 / AVC
- **Decode 3 (Transcode)**
 - 1920x1080p30 / 60i 8-bit HEVC / VP9 / AVC
- **Graphics 0 (UHD)**
 - 1080p60 32-bit ARGB
- **Graphics 1 (SD)**
 - 480p60 32-bit ARGB
- **Graphics 2 (Transcode)**
 - 1280x720p60 32-bit ARGB
- **Graphics 3 (Transcode)**
 - 1280x720p60 32-bit ARGB

Decoder	MFD	Usage	Hardware
Decode 0	MFD0	Single source mode MAIN + PIP mode (MAIN or PIP)	HVD0
Decode 1	MFD1	MAIN + PIP mode (PIP or MAIN)	HVD0
Decode 2	MFD2	Transcode 0	HVD1
Decode 3	MFD3	Transcode 1	HVD1

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

- Up to full-screen display (smooth scaling)
- 10-bit support / 1080i60 10-bit de-interlacing

- **Window 1 (PIP / UHD)**

- Must be inactive in single-source mode
- MAIN + PIP mode:
 - Up to $\frac{1}{2} \times \frac{1}{2}$ screen display
 - 1080i60 8-bit de-interlacing

- **Window 2 (MAIN / SD)**

- Up to full-screen display (smooth scaling)

- **Window 3 (PIP / SD)**

- Must be inactive in single-source mode
- MAIN + PIP mode:
 - Up to $\frac{1}{2} \times \frac{1}{2}$ screen display

- **Window 4 (Transcode)**

- Full-screen display
- 1080i60 8-bit de-interlacing

- **Window 5 (Transcode)**

- Full-screen display
- 1080i60 8-bit de-interlacing

■ Display 0 (HD)

- 3840x2160p60 12-bit 4:2:0 (HDMI)
- 3840x2160p60 12-bit 4:2:2 (HDMI)
- 3840x2160p60 8-bit 4:4:4 (HDMI)
- 1920x1080p60 (component)
- Only one display format at a time
 - If you want 1080p60 component, HDMI also needs to be 1080p60.

■ Display 1 (SD)

- 480i60 (CVBS)
- 576i50 (CVBS)

■ Encode 0

- 720p60 8-bit AVC

■ Encode 1

- 720p60 8-bit AVC