

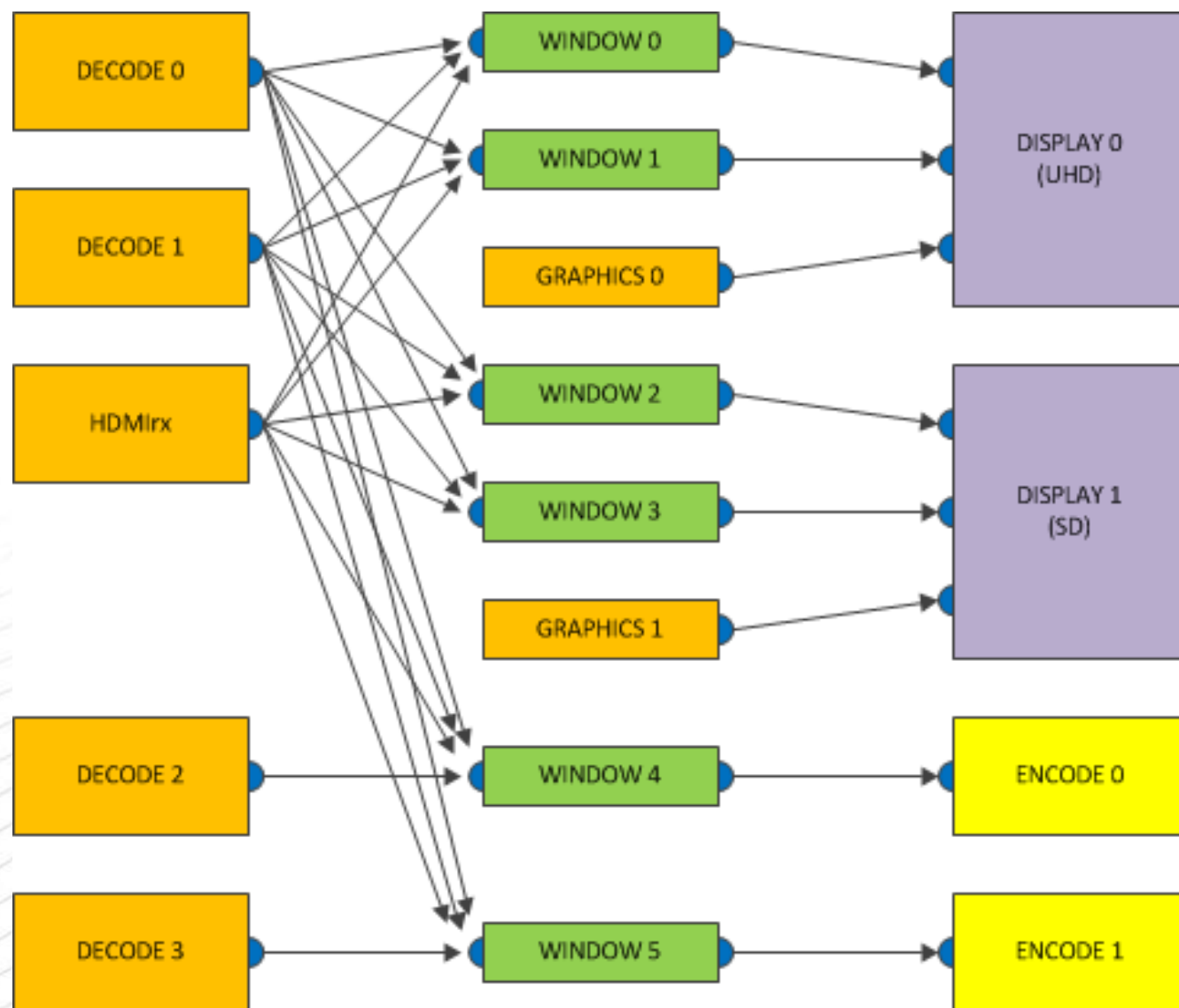
BOX MODE #7

7439 Bx



- **Required memory speed: 2x 32-bit DDR3-2133**
 - High-temperature refresh not supported
- **Features:**
 - 3840x2160p50 10-bit decode for MAIN
 - 1920x1080p25/50i 8-bit decode for PIP
 - Quad multi-PIP support
 - HDMI input
 - UHD + SD display
 - Dual 1920x1080p25/50i to 720p25 transcoding

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 decode mode:
 - 3840x2160p50 10-bit HEVC
 - 3840x2160p50 8-bit VP9
 - 1920x1080p50 8-bit AVC / MPEG2
- Multi-PIP mode (3x):
 - 1920x1080p25 / 50i 8-bit HEVC / VP9 / AVC / MPEG2

- **Decode 1**

- 1920x1080p25 / 50i 8-bit HEVC / VP9 / AVC / MPEG2

- **Decode 2**

- 1920x1080p25 / 50i 8-bit HEVC / VP9 / AVC / MPEG2

- **Decode 3**

- 1920x1080p25 / 50i 8-bit HEVC / VP9 / AVC / MPEG2

- **Graphics 0 (UHD)**

- 1080p50 32-bit ARGB

- **Graphics 1 (SD)**

- 576p50 32-bit ARGB

- **HDMIrx**

- 3840x2160p50

Decoder	MFD	Expected Usage	Hardware
Decode 0	MFD0	Primary decode	HVD0
Decode 1	MFD1	Secondary decode	HVD1
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 / 1080i50 10-bit de-interlacing
- Multi-PIP mode (3x):
 - Up to 25% of the display canvas used for each window.
 - 576i50 8-bit de-interlacing

■ Window 1 (PIP / UHD)

- When Decode 0 is limited to 1080p25/50i 8-bit or less, this window may be up to full-screen display (smooth scaling)
- When Decode 0 is larger than 1080p25/50i 8-bit, this window is limited to $\frac{1}{2} \times \frac{1}{2}$ of the display canvas.
- 1080i50 8-bit de-interlacing

■ Window 2 (MAIN / SD)

- Up to full-screen display (smooth scaling)
- Multi-PIP mode (3x);
 - Up to 25% of the display canvas used for each window.

■ Window 3 (PIP / SD)

- When Decode 0 is limited to 1080p25/50i 8-bit or less, this window may be up to full-screen display (smooth scaling)
- When Decode 0 is larger than 1080p25/50i 8-bit, this window is limited to $\frac{1}{2} \times \frac{1}{2}$ of the display canvas.

■ Window 4 / 5 (Transcode)

- Full-screen display only
- 1080i50 8-bit de-interlacing support

- **Display 0 (UHD)**

- 3840x2160p50

- **Display 1 (SD)**

- 576i50

- **Encode 0**

- 720p25 8-bit AVC

- **Encode 1**

- 720p25 8-bit AVC