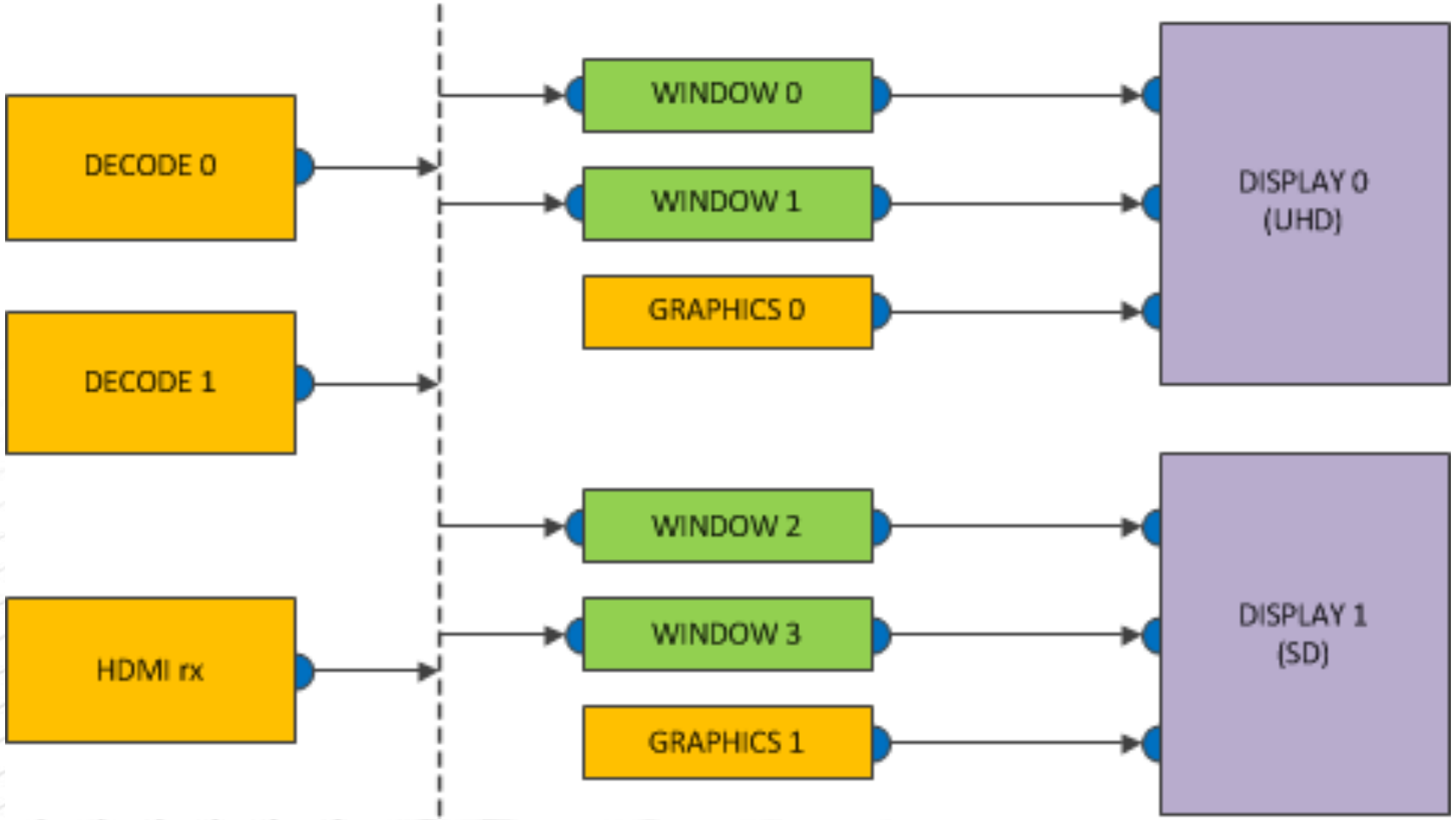
BOX MODE #13

7439 Bx

BOX MODE #13 – SUMMARY

- **Required memory speed: 1x 32-bit DDR3-2133 or 1x 32-bit DDR4-2400**
  - No high-temperature refresh
- **Features:**
  - 3840x2160p50 10-bit HEVC decode or 1080p25/50i MAIN+PIP mode.
  - 3 Multi-PIP support.
  - UHD + SD display
  - MAIN (4K) or MAIN+PIP (1080p)
  - HDMI input supported up to 3840x2160p50
  - No transcoding

POSSIBLE VIDEO ROUTINGS



SOURCE LIMITATIONS

- **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:
    - 3840x2160p50 10-bit HEVC
    - 3840x2160p50 8-bit VP9
    - 1920x1080p50 8-bit AVC / MPEG2
  - MAIN + PIP mode:
    - 1920x1080p25/50i 10-bit HEVC
    - 1920x1080p25/50i 8-bit VP9 / AVC / MPEG2
  - Multi-PIP mode (3x)
    - 1920x1080p25/50i 10-bit HEVC
    - 1920x1080p25/50i 8-bit VP9 / AVC / MPEG2
- **Decode 1**
  - Must be inactive in single-source mode and multi-PIP mode.
  - MAIN + PIP mode:
    - 1920x1080p25/50i 10-bit HEVC
    - 1920x1080p25/50i 8-bit VP9 / AVC / MPEG2
- **HDMI rx**
  - 3840x2160p50
- **Graphics 0 (HD)**
  - 1080p50 32-bit ARGB
- **Graphics 1 (SD)**
  - 576p50 32-bit ARGB

HARDWARE RESOURCE MAPPING

Decoder	MFD	Hardware
Decode 0	MFD0	HVD0
Decode 1	MFD1	HVD0

WINDOW LIMITATIONS

- **Window 0 (MAIN / UHD)**
  - Up to full-screen display (smooth scaling)
  - 1080i50 de-interlacing
  - Multi-PIP mode (3x)
    - Up to 25% of the canvas for each window.
    - Up to 576i50 de-interlacing
- **Window 1 (PIP / UHD)**
  - Must be inactive in single-source mode and multi-pip mode.
  - Up to ½ x ½ display (smooth scaling)
  - 1080i50 de-interlacing
- **Window 2 (MAIN / SD)**
  - Up to full-screen display (smooth scaling)
  - Multi-PIP mode (3x)
    - Up to 25% of the canvas display for each window.
- **Window 3 (PIP / SD)**
  - Must be inactive in single-source mode and multi-pip mode.
  - Up to ½ x ½ display (smooth scaling)

DISPLAY AND ENCODE LIMITATIONS

- **Display 0 (UHD)**
  - 3840x2160p50
- **Display 1 (SD)**
  - 576i50