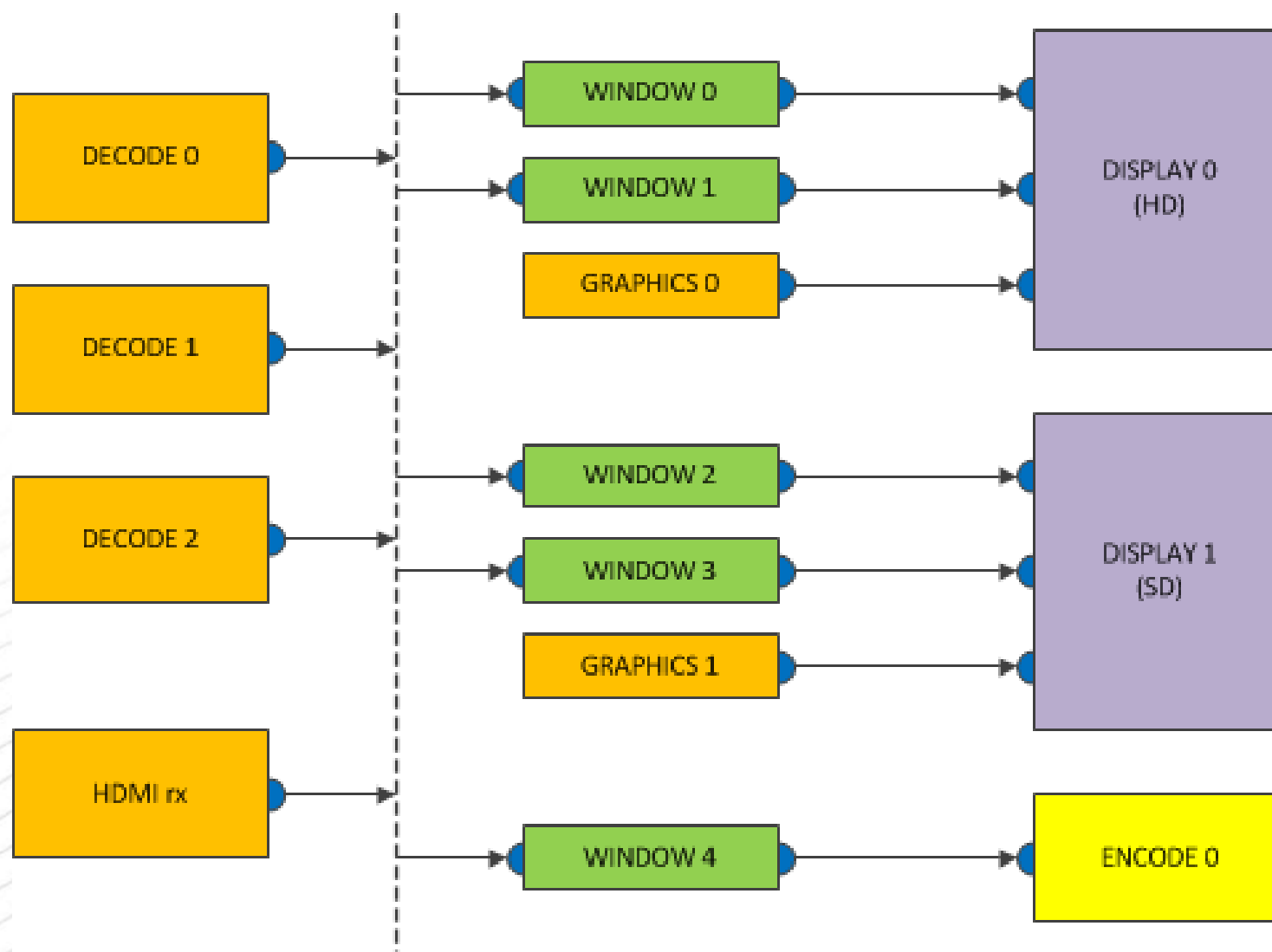# BOX MODE #17

7439 Bx

- **Required memory speed: 1x 32-bit DDR3-2133**
  - No high-temperature refresh

- **Features:**
  - Three decoders: 1080p60 10-bit HEVC / 1080p30/60i 8-bit AVC
  - HD + SD display
  - MAIN + PIP supported
  - HDMI input supported
  - 720p60 encoding

SOURCE LIMITATIONS

- **For each source, you may toggle between any of the provided options.**
  - Only one option enabled at a given time.

- **Decode 0**
  - 1080p60 10-bit HEVC
  - 1080p30/60i 8-bit VP9 / AVC / MPEG

- **Decode 1**
  - 1080p60 10-bit HEVC
  - 1080p30/60i 8-bit VP9 / AVC / MPEG

- **Decode 2**
  - 1080p60 10-bit HEVC
  - 1080p30/60i 8-bit VP9 / AVC / MPEG

- **HDMI rx**
  - 1080p60

- **Graphics 0 (HD)**
  - 1080p60 32-bit ARGB

- **Graphics 1 (SD)**
  - 480p60 32-bit ARGB
  - 576p50 32-bit ARGB

HARDWARE RESOURCE MAPPING

Decoder	MFD	Hardware
Decode 0	MFD0	HVD0
Decode 1	MFD1	HVD0
Decode 2	MFD2	HVD1

WINDOW LIMITATIONS

- **Window 0 (MAIN / HD)**
  - Up to full-screen display (smooth scaling)
  - 1080i60 10-bit de-interlacing

- **Window 1 (PIP / HD)**
  - Up to ½ x ½ display (smooth scaling)
  - 1080i60 de-interlacing

- **Window 2 (MAIN / SD)**
  - Up to full-screen display (smooth scaling)

- **Window 3 (PIP / SD)**
  - Up to ½ x ½ display (smooth scaling)

- **Window 4 (Encode 0)**
  - Full-screen only
  - 1080i60 8-bit de-interlacing

DISPLAY AND ENCODE LIMITATIONS

- **Display 0 (UHD)**
  - 3840x2160p60

- **Display 1 (SD)**
  - 480i60
  - 576i50

- **Encode 0**
  - 720p60 8-bit