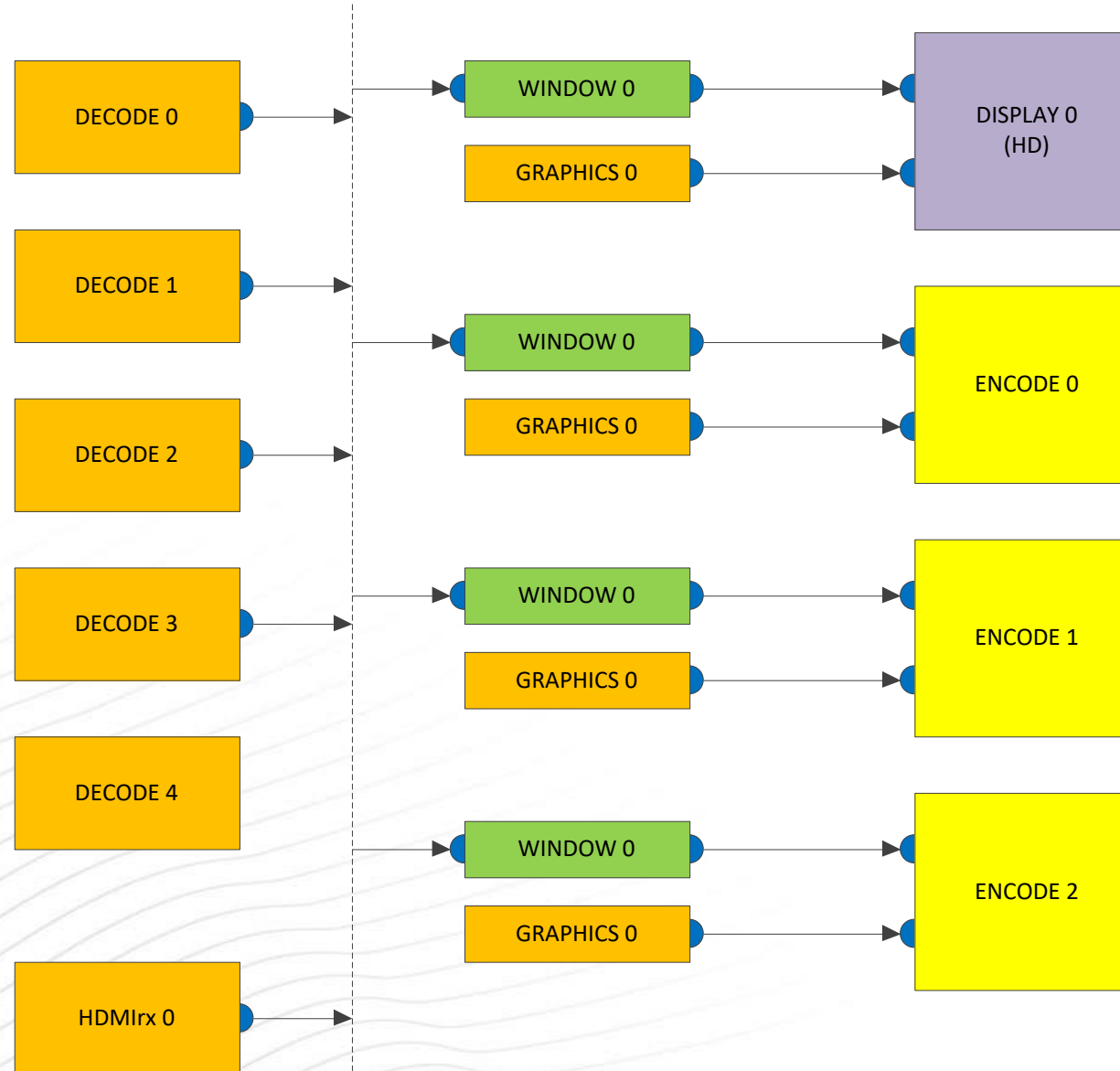# BOX MODE #18

7445 D0

BOX MODE 18 - SUMMARY

- **Memory speed: 3x 32-bit DDR3-2133**
  - High temperature refresh supported.

- **Features:**
  - Two decodes:
    - 1080p60 8-bit AVC
  - Two more decodes:
    - 1080p30 / 720p60 8-bit AVC
  - One additional graphics only decoder:
    - 1080p30 / 720p60 8-bit AVC
  - HD output
  - HDMI input
  - One encode up to 1080p60
    - With 1080p60 graphics
  - Two encodes up to 1080p30
    - With 1080p60 graphics

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**
  - 1080p60 8-bit AVC

- **Decode 1**
  - 1080p60 8-bit AVC

- **Decode 2**
  - 1080p30 / 720p60 8-bit AVC

- **Decode 3**
  - 1080p30 / 720p60 8-bit AVC

- **Decode 4**
  - This is a graphics only decoder and cannot be routed into the video network.
  - 1080p30 / 720p60 8-bit AVC

- **HDMIrx 0**
  - 1920x1080p60

- **Graphics 0 / Display 0**
  - 1080p60 32-bit ARGB

- **Graphics 0 / Encode 0**
  - 1080p60 32-bit ARGB

- **Graphics 0 / Encode 1**
  - 1080p60 32-bit ARGB

- **Graphics 0 / Encode 2**
  - 1080p60 32-bit ARGB

DECODER MAPPING

Decoder	MFD	Hardware
Decode 0	MFD0	HVD0
Decode 1	MFD1	HVD1
Decode 2	MFD2	HVD2
Decode 3	MFD3	HVD2
Decode 4	n/a	HVD2

WINDOW LIMITATIONS

- **Window 0 / Display 0 (HD)**
  - Up to full-screen display
  - 1080i60 de-interlacing

- **Window 0 / Encode 0**
  - Full-screen display

- **Window 0 / Encode 1**
  - Full-screen display

- **Window 0 / Encode 2**
  - Full-screen display

- **At most one encode path can use 1080i60 de-interlacing at any given time.**

DISPLAY AND ENCODE LIMITATIONS

- **Display 0 (UHD)**
  - 1920x1080p60

- **Encode 0**
  - 1080p60 8-bit

- **Encode 1**
  - 1080p30 8-bit

- **Encode 2**
  - 1080p30 8-bit