

7255

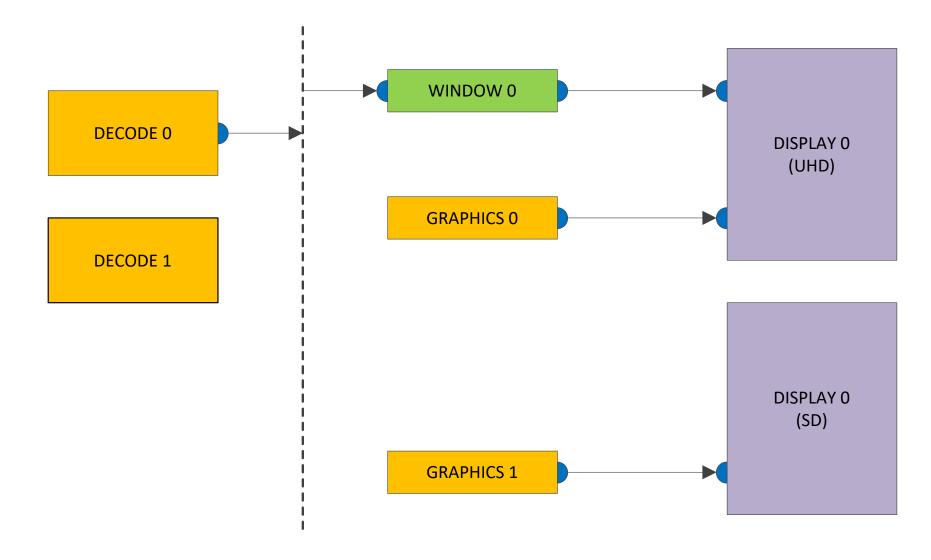


Box mode #5 – Summary

- Required memory speed: 1x 32-bit DDR4-2400
 - No high-temperature refresh
- Features:
 - Single 3840x2160p60 decode or dual 3840x2160p30 + 1080p60 decode
 - UHD display
 - Additional independent SD display supported (graphics only no video)
 - Main + graphics PIP
 - Decode and MAIN window display limitations for 3840x2160p cases.
 - No Multi-PIP support
 - No HDMI input
 - No transcoding
 - Runs SCB at 324 Mhz



Possible video routings





Source limitations

- Decode 0
 - 3840x2160p60 10-bit HEVC / VP9 / AVS2.0
 - 3840x2160p30 8-bit AVC
 - 1920x1080p60 8-bit AVS / AVS+
 - 1920x1080p30/60i 8-bit MPEG2
 - No MTG support
 - Progressive sources larger than 1080p and all 1080i sources must have an aspect ratio less than or equal to 2.21:1

- Decode 1
 - Must be inactive when Decode 0 is handling any single source greater than 4kp30.
 - 1920x1080p60 10-bit HEVC / VP9 / AVS2.0
 - 1920x1080p60 8-bit AVC / AVS / AVS+
 - 1920x1080p30/60i 8-bit MPEG2
 - This decoder can only be used to feed the graphics path. It cannot feed the video network.
- Graphics 0 (UHD)
 - 1080p60 32-bit ARGB
- Graphics 1 (SD)
 - 480p60 32-bit ARGB



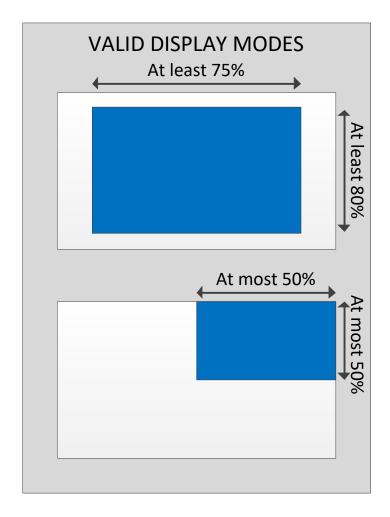
HARDWARE RESOURCE MAPPING

Decoder	MFD	Hardware
Decode 0	MFD0	HVD0
Decode 1	(graphics only)	HVD0



Window Limitations

- Window 0 (MAIN / UHD)
 - 1080i60 de-interlacing
 - When the display format is less than or equal to 1080p:
 - Up to full-screen (smooth-scaling)
 - When the display format is greater than 1080p, the diagram to the right specifies the limits.





Display and encode limitations

- Display 0 (UHD)
 - 3840x2160p60
 - Displays larger than 1080p must have an aspect ratio greater than or equal to 16:9
- Display 1 (SD)
 - **-** 480i60

