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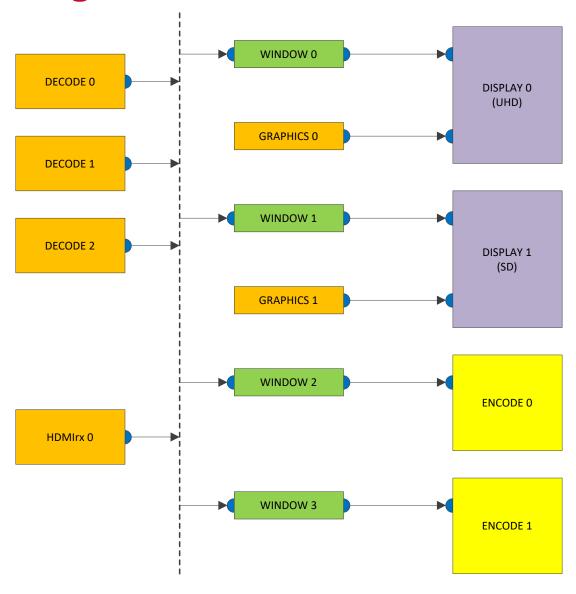


Box mode #3 – summary

- Required memory speed: 2x 32-bit LPDDR4-3200
 - No high-temperature refresh
- Features:
 - One 4kp60 capable decoder + two1080p60 decoders
 - UHD + SD
 - MAIN only (no PIP)
 - Multi-PIP support (3+0)
 - HDMI input
 - Two transcodes to 1080p30



Possible video routings





Source limitations

- Decode 0
 - 3840x2160p60 10-bit HEVC / VP9
 - 3840x2160p60 8-bit AVC
 - 1920x1080p60 8-bit MPEG2
 - Multi-PIP (3x)
 - 1920x1080p60 10-bit HEVC / VP9
 - 1920x1080p60 8-bit AVC / MPEG2
 - MTG supported
- Decode 1 / 2
 - 1920x1080p60 10-bit HEVC / VP9
 - 1920x1080p60 8-bit AVC / MPEG2
 - MTG supported

- HDMIrx 0
 - Up to 3840x2160p60
- Graphics 0 (UHD)
 - 1080p60 32-bit ARGB
 - Requires graphics compression
- Graphics 1 (SD)
 - 480p60 32-bit ARGB
 - 576p50 32-bit ARGB



HARDWARE RESOURCE MAPPING

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



Window limitations

- Window 0 (MAIN / UHD)
 - Up to full-screen display (smooth scaling)
 - 1080i60 de-interlacing
 - Multi-PIP (3x)
 - Up to 480i60 de-interlacing
 - Each window is limited to 25% of the canvas
- Window 1 (MAIN / SD)
 - Up to full-screen display (smooth scaling)
 - No de-interlacing
 - Multi-PIP (3x)
 - Each window is limited to 25% of the canvas

- Window 2 (MAIN / Encode 0)
 - Full-screen only
 - 1080i60 de-interlacing
- Window 3 (MAIN / Encode 1)
 - Full-screen only
 - 1080i60 de-interlacing
- Only one CAP/VFD available for Window 2 or Window 3



Display and encode limitations

- Display 0 (UHD)
 - 3840x2160p60
 - Can drive the SD CVBS output if the format is set to 480i60 or 576i50
- Display 1 (SD)
 - 480i60
 - 576i50

- Encode 0
 - Up to 1080p30 8-bit
- Encode 1
 - Up to 1080p30 8-bit

