

7445

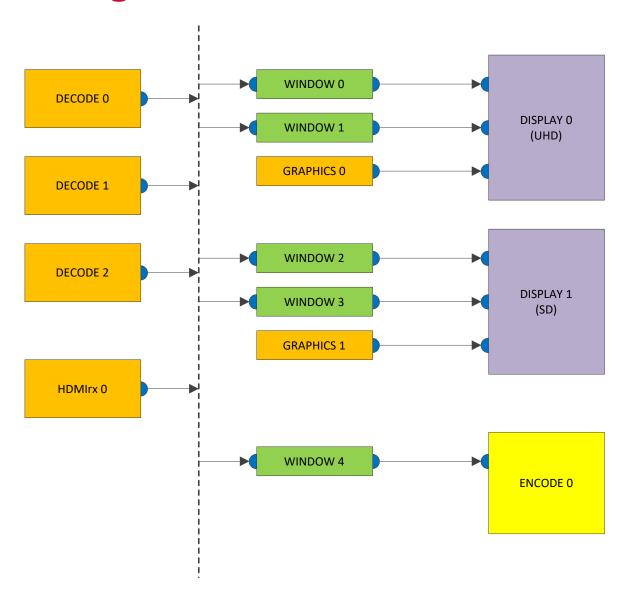


Box mode #15

- Required memory speed: 3x 32-bit DDR3-2133 / DDR4-2400
 - High-temperature refresh supported
- Features:
 - Three decoders:
 - One 3840x2160p60 10-bit decoder
 - Two 1920x1080p60 8-bit decoders
 - Multi-PIP supported (3+1)
 - UHD + SD display
 - Main + PIP
 - HDMI input supported
 - Encoding to 1080p60



Possible video routings





Source limitations

- Decode 0
 - 3840x2160p60 10-bit HEVC / VP9
 - 1920x1080p60 8-bit AVC / MPEG2
 - Multi-PIP (3x)
 - 1920x1080p30/60i 8-bit HEVC / VP9
 - 1920x1080p30/60i 8-bit AVC / MPEG2
- Decode 1 / Decode 2
 - 1920x1080p60 8-bit HEVC / VP9
 - 1920x1080p60 8-bit AVC / MPEG2

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



Hardware resource mapping

Decoder	MFD	Hardware	
Decode 0	MFD0	HVD0	
Decode 1	MFD1	HVD1	
Decode 2	MFD2	HVD2	



Window limitations

- Window 0 (MAIN / UHD)
 - Up to full-screen display (smooth scaling)
 - 1080i60 de-interlacing
 - Multi-PIP (3x)
 - Each display rectangle up to 25% x 25%
 - 480i60 de-interlacing
- Window 1 (PIP / UHD)
 - Up to full-screen display (smooth scaling)
 - 1080i60 de-interlacing

- Window 2 (MAIN / SD)
 - Up to full-screen display (smooth scaling)
 - No de-interlacing
 - Multi-PIP (3x)
 - Each display rectangle up to 25% x 25%
- Window 3 (PIP / SD)
 - Up to full-screen display (smooth scaling)
 - No de-interlacing
- Window 4 (Encode 0)
 - Full-screen display only
 - 1080i60 de-interlacing



Display and Encode limitations

- Display 0 (UHD)
 - 3840x2160p60
- Display 1 (SD)
 - 480i60 or 576i50

- Encode 0
 - Up to 1080p60 8-bit

