

AFBC 1.2 Standalone configurations and area

Line buffer size; example layer combinations supported	AFBC 1.2 Standalone Decoder Area (TSMC CLN28HPM S3 I, 700MHz, post layout with 81% utilization)
128 kB: 1 layer RGBA @ 8K / 2 layers RGBA @ 4K / 4 layers RGBA @ 1080p	0.42 mm ²
96 kB: 1 layer YUV420 8-bit @ 8K / 2 layers YUV420 8-bit @ 4K / 4 layers YUV420 8-bit @ 1080p	0.36 mm ² *
64 kB: 1 layer RGBA @ 4K / 2 layers RGBA @ 1080p	0.30 mm ² *
30 kB: 1 layer RGBA @ 1080p	0.24 mm ² *

Line buffer size; example layer combinations supported	AFBC 1.2 Standalone Encoder Area (TSMC CLN28HPM S3 I, 700MHz, post layout with 85% utilization)
128 kB: 1 layer @ RGBA 8K	0.33 mm ²
96 kB: 1 layer YUV420 8-bit @ 8K	0.27 mm ² *
64 kB: 1 layer RGBA @ 4K	0.21 mm ² *
30 kB: 1 layer RGBA @ 1080p	0.15 mm ² *

Core Block	AFBC 1.2 Core Area (TSMC CLN28HPM S3 I, 700MHz, synthesis, pre-shrink)
4x4 Decoder Core	0.034 mm ²
Superblock Encoder Core	0.050 mm ²

*Estimated area