Table 1: Comparisons with previous works.

	ASU	ours
Model	Res-50	-
FPGA	Stratix V	Stratix V GSMD8
	GXA7	
Freq (MHz)	150	160
Precision	16bit	16bit fixed
	fixed	
Mul	1,176	576
DSP	256	576
LUT/ALM	176K	86.2K
BRAM	1,950	261
Latency (ms)	31.82	7.23 (Res-18)
		3.78 (MoblieNetV2)
		27.26 (Res-50)
Throughput (GOP/s)	121.6	233.6 (Res-18)
		76.3 (MoblieNetV2)
		142.0 (Res-50)
Efficiency (GOP/s/Mul)	0.103	0.405 (Res-18)
		0.132 (MoblieNetV2)
		0.247 (Res-50)
Normalized Efficiency	1	3.94 (Res-18)
		1.28 (MoblieNetV2)
		2.39 (Res-50)