

Algorithm family	identifier	command	PC Engines APU					Broachlink NOAH2					NAOH2 ratio from APU (gain in %)				
			16	64	256	1024	8192	16	64	256	1024	8192	16	64	256	1024	8192
AES-128-CBC (128 bit key, 128 bit block)	aes-128-cbc	openssl speed -elapsed -evp aes-128-cbc	140805.05k	220290.57k	275632.13k	294089.05k	299248.92k	165319.83k	256638.10k	309249.55k	326236.16k	331309.79k	17,41	16,50	12,20	10,93	10,71
AES-128-CFB (128 bit key, 128 bit block)	aes-128-cfb	openssl speed -elapsed -evp aes-128-cfb	101020.53k	156293.91k	176385.93k	171803.37k	140598.60k	128599.47k	201654.27k	242263.02k	254670.87k	258788.01k	27,30	29,02	37,35	48,23	84,06
AES-128-CFB1 (128 bit key, 128 bit block)	aes-128-cfb1	openssl speed -elapsed -evp aes-128-cfb1	1139.93k	1143.96k	1146.54k	1145.86k	1143.65k	1784.93k	1788.77k	1795.51k	1792.34k	1788.27k	56,58	56,37	56,60	56,42	56,37
AES-128-CFB8 (128 bit key, 128 bit block)	aes-128-cfb8	openssl speed -elapsed -evp aes-128-cfb8	10379.69k	10384.61k	10823.51k	10861.94k	10904.66k	14959.61k	15683.84k	15855.71k	15911.06k	15920.52k	44,12	51,03	46,49	46,48	46,00
AES-128-OFB (128 bit key, 128 bit block)	aes-128-ofb	openssl speed -elapsed -evp aes-128-ofb	108235.57k	124608.04k	150720.60k	158542.85k	193617.92k	140832.87k	224804.30k	281918.63k	299337.32k	304990.89k	30,12	80,41	87,05	88,81	57,52
AES-192-CBC (192 bit key, 128 bit block)	aes-192-cbc	openssl speed -elapsed -evp aes-192-cbc	130447.58k	193000.97k	234593.71k	247380.25k	251590.50k	151454.81k	222830.42k	261968.47k	274426.32k	276888.76k	16,10	15,46	11,67	10,93	10,06
AES-192-CFB (192 bit key, 128 bit block)	aes-192-cfb	openssl speed -elapsed -evp aes-192-cfb	70012.77k	129485.96k	152627.88k	164593.66k	165628.71k	121055.19k	180012.47k	212040.12k	221627.94k	224461.30k	72,90	39,02	38,93	34,65	35,52
AES-192-CFB1 (192 bit key, 128 bit block)	aes-192-cfb1	openssl speed -elapsed -evp aes-192-cfb1	1043.29k	1045.24k	1047.47k	1048.58k	1045.85k	1560.50k	1571.25k	1572.14k	1570.53k	1575.59k	49,57	50,32	50,09	49,78	50,65
AES-192-CFB8 (192 bit key, 128 bit block)	aes-192-cfb8	openssl speed -elapsed -evp aes-192-cfb8	8164.21k	7088.24k	7234.04k	7254.02k	9178.95k	13142.05k	13668.81k	13797.42k	13839.94k	13858.13k	60,97	92,84	90,73	90,79	50,98
AES-192-OFB (192 bit key, 128 bit block)	aes-192-ofb	openssl speed -elapsed -evp aes-192-ofb	100886.55k	150210.26k	177506.92k	186326.35k	188122.01k	129973.83k	199487.51k	241856.03k	254757.35k	258698.68k	28,83	32,81	36,25	36,73	37,52
AES-256-CBC (256 bit key, 128 bit block)	aes-256-cbc	openssl speed -elapsed -evp aes-256-cbc	122138.18k	172674.55k	204450.13k	213948.01k	216884.47k	138277.36k	193969.47k	225904.04k	235980.17k	238438.01k	13,21	12,33	10,49	10,30	9,94
AES-256-CFB (256 bit key, 128 bit block)	aes-256-cfb	openssl speed -elapsed -evp aes-256-cfb	90764.42k	126399.55k	143822.10k	149399.73k	150538.92k	112352.10k	158918.93k	187610.37k	195456.39k	198454.52k	23,78	25,73	30,45	30,83	31,83
AES-256-CFB1 (256 bit key, 128 bit block)	aes-256-cfb1	openssl speed -elapsed -evp aes-256-cfb1	881.41k	964.13k	966.57k	967.92k	965.86k	1396.85k	1403.34k	1406.31k	1405.68k	1408.01k	58,48	45,56	45,49	45,23	45,78
AES-256-CFB8 (256 bit key, 128 bit block)	aes-256-cfb8	openssl speed -elapsed -evp aes-256-cfb8	8558.97k	8803.59k	8883.71k	8887.64k	8868.65k	11624.21k	12099.84k	12215.14k	12262.81k	12234.29k	35,81	37,44	37,50	37,98	37,95
AES-256-OFB (256 bit key, 128 bit block)	aes-256-ofb	openssl speed -elapsed -evp aes-256-ofb	94647.28k	135579.20k	159858.56k	166147.21k	168349.28k	120856.68k	170349.54k	209017.94k	220602.33k	224355.84k	27,69	25,65	30,75	32,78	33,27
BF-CBC (128 bit key by default, 64 bit block)	bf-cbc	openssl speed -elapsed -evp bf-cbc	20926.63k	24306.33k	32736.84k	36921.95k	37220.51k	46411.51k	54629.75k	56816.88k	57706.84k	57960.11k	121,78	124,76	73,56	56,29	55,72
BF-CFB (128 bit key by default, 64 bit block)	bf-cfb	openssl speed -elapsed -evp bf-cfb	25570.47k	28173.42k	29162.93k	29465.94k	29507.63k	37498.39k	42715.34k	44212.22k	44764.98k	44837.55k	46,65	51,62	51,60	51,92	51,95
BF-OFB (128 bit key by default, 64 bit block)	bf-ofb	openssl speed -elapsed -evp bf-ofb	17447.83k	20687.24k	27128.99k	29407.88k	29441.84k	37978.19k	44141.25k	45955.07k	46475.61k	46628.86k	117,67	113,37	69,39	58,04	58,38
CAMELLIA-128-CBC (128 bit key, 128 bit block)	camellia-128-cbc	openssl speed -elapsed -evp camellia-128-cbc	24648.31k	39367.50k	46193.05k	48528.73k	48810.67k	30456.96k	55605.23k	70028.34k	74859.13k	76635.85k	23,57	41,25	51,60	54,26	57,01
CAMELLIA-128-CFB (128 bit key, 128 bit block)	camellia-128-cfb	openssl speed -elapsed -evp camellia-128-cfb	37877.51k	43610.80k	45462.87k	45916.50k	45881.20k	55857.08k	66830.76k	70127.25k	71029.54k	71476.62k	47,47	53,24	54,25	54,69	55,79
CAMELLIA-128-CFB1 (128 bit key, 128 bit block)	camellia-128-cfb1	openssl speed -elapsed -evp camellia-128-cfb1	336.45k	286.40k	309.98k	336.95k	337.41k	521.04k	522.03k	522.26k	522.32k	522.96k	54,86	82,27	68,48	55,01	54,99
CAMELLIA-128-CFB8 (128 bit key, 128 bit block)	camellia-128-cfb8	openssl speed -elapsed -evp camellia-128-cfb8	2805.64k	2824.83k	2811.68k	2837.96k	2837.16k	4268.00k	4316.78k	4344.43k	4349.42k	4346.68k	52,12	52,82	54,51	53,26	53,21
CAMELLIA-128-OFB (128 bit key, 128 bit block)	camellia-128-ofb	openssl speed -elapsed -evp camellia-128-ofb	26950.01k	30608.09k	31789.85k	32183.81k	35021.38k	57409.81k	67563.25k	70350.21k	71613.66k	71670.71k	113,02	120,74	121,30	122,51	104,65
CAMELLIA-192-CBC (192 bit key, 128 bit block)	camellia-192-cbc	openssl speed -elapsed -evp camellia-192-cbc	16700.15k	31382.11k	35549.45k	36966.05k	35687.08k	27002.57k	44824.77k	54182.55k	57197.99k	58111.76k	61,69	42,84	52,41	54,73	62,84
CAMELLIA-192-CFB (192 bit key, 128 bit block)	camellia-192-cfb	openssl speed -elapsed -evp camellia-192-cfb	30244.78k	33954.71k	35205.13k	35507.10k	35590.53k	45174.06k	52360.84k	54271.48k	54896.71k	55101.59k	49,36	54,21	54,16	54,61	54,82
CAMELLIA-192-CFB1 (192 bit key, 128 bit block)	camellia-192-cfb1	openssl speed -elapsed -evp camellia-192-cfb1	238.71k	216.69k	262.82k	263.50k	263.49k	408.15k	409.16k	409.09k	408.40k	409.60k	70,98	88,82	55,65	54,99	55,45
CAMELLIA-192-CFB8 (192 bit key, 128 bit block)	camellia-192-cfb8	openssl speed -elapsed -evp camellia-192-cfb8	2172.31k	2168.01k	2093.44k	2109.25k	2165.06k	3328.96k	3356.12k	3369.64k	3372.56k	3370.42k	53,25	54,80	60,96	59,89	55,67
CAMELLIA-192-OFB (192 bit key, 128 bit block)	camellia-192-ofb	openssl speed -elapsed -evp camellia-192-ofb	21702.51k	25562.87k	33789.43k	35731.44k	35826.35k	46351.18k	52769.10k	54507.58k	55161.48k	55233.87k	113,58	106,43	61,32	54,38	54,17
CAMELLIA-256-CBC (256 bit key, 128 bit block)	camellia-256-cbc	openssl speed -elapsed -evp camellia-256-cbc	14883.89k	21746.27k	26184.62k	27047.25k	28774.88k	26998.72k	44763.92k	54272.61k	57232.06k	58006.16k	81,40	105,85	107,27	111,60	101,59
CAMELLIA-256-CFB (256 bit key, 128 bit block)	camellia-256-cfb	openssl speed -elapsed -evp camellia-256-cfb	30457.85k	34222.86k	35265.19k	35588.91k	35618.82k	45284.63k	52390.67k	54277.76k	54814.99k	55120.95k	48,68	53,09	53,91	54,02	54,75
CAMELLIA-256-CFB1 (256 bit key, 128 bit block)	camellia-256-cfb1	openssl speed -elapsed -evp camellia-256-cfb1	183.56k	234.60k	263.68k	262.82k	262.81k	407.55k	409.37k	408.84k	408.64k	409.13k	122,03	74,50	55,05	55,48	55,68
CAMELLIA-256-CFB8 (256 bit key, 128 bit block)	camellia-256-cfb8	openssl speed -elapsed -evp camellia-256-cfb8	2178.49k	2099.24k	2055.58k	2174.43k	2094.44k	3324.63k	3354.22k	3368.67k	3372.16k	3377.86k	52,61	59,78	63,88	55,08	61,28
CAMELLIA-256-OFB (256 bit key, 128 bit block)	camellia-256-ofb	openssl speed -elapsed -evp camellia-256-ofb	30366.91k	33814.51k	35453.99k	35677.19k	35561.47k	46447.42k	52779.29k	54390.45k	55131.82k	55341.51k	52,95	56,08	53,41	54,53	55,62
CAST5-CBC (128 bit key by default, 64 bit block)	cast5-cbc	openssl speed -elapsed -evp cast5-cbc	21586.16k	25176.87k	27127.17k	35248.00k	38151.82k	46701.63k	55549.93k	58804.25k	59765.53k	59940.56k	116,35	120,64	116,77	69,56	57,11
CAST5-CFB (128 bit key by default, 64 bit block)	cast5-cfb	openssl speed -elapsed -evp cast5-cfb	26070.67k	28441.64k	28976.48k	29031.11k	29762.80k	38437.21k	43783.36k	45255.49k	45786.58k	45973.59k	47,43	53,94	56,18	57,72	54,47
CAST5-OFB (128 bit key by default, 64 bit block)	cast5-ofb	openssl speed -elapsed -evp cast5-ofb	18367.58k	22906.78k	30168.83k	30474.24k	30558.11k	38501.89k	44493.27k	46437.27k	46896.83k	46966.58k	109,62	94,24	53,92	53,89	53,70
DES-CBC (64 bit key, 64 bit block)	des-cbc	openssl speed -elapsed -evp des-cbc	18089.95k	19517.92k	19924.01k	20088.72k	20132.66k	31272.21k	35178.04k	36412.21k	36811.27k	36847.28k	72,87	80,23	82,76	83,24	83,02
DES-CFB (64 bit key, 64 bit block)	des-cfb	openssl speed -elapsed -evp des-cfb	15915.02k	17097.28k	17412.61k	17521.85k	17519.96k	27881.86k	30730.88k	31520.51k	31726.25k	31787.69k	75,19	79,74	81,02	81,07	81,44
DES-CFB1 (64 bit key, 64 bit block)	des-cfb1	openssl speed -elapsed -evp des-cfb1	234.89k	195.18k	242.89k	242.06k	242.58k	431.85k	432.94k	433.07k	433.15k	432.24k	83,85	121,82	78,30	78,94	78,18
DES-CFB8 (64 bit key, 64 bit block)	des-cfb8	openssl speed -elapsed -evp des-cfb8	2337.83k	2362.79k	2371.41k	2376.59k	2372.81k	4278.79k	4359.25k	4368.02k	4384.77k	4386.68k	83,02	84,50	84,20	84,50	84,87
DES-EDE-CBC (128 bit key, 64 bit block)	des-edc-cbc	openssl speed -elapsed -evp des-edc-cbc	7096.54k	7297.16k	7384.06k	7401.83k	7391.25k	12625.51k	13149.61k	13282.83k	13369.34k	13370.69k	77,91	80,20	79,89	80,62	80,90
DES-EDE-CFB (128 bit key, 64 bit block)	des-edc-cfb	openssl speed -elapsed -evp des-edc-cfb	6759.03k	6962.28k	7012.27k	7032.20k	7036.21k	11952.08k	12538.45k	12679.96k	12736.98k	12735.83k	76,83	80,09	80,83	81,12	81,00
DES-EDE-OFB (128 bit key, 64 bit block)	des-edc-ofb	openssl speed -elapsed -evp des-edc-ofb	6741.13k	7010.57k	7078.56k	6332.42k	5248.34k	11902.48k	12547.93k	12690.24k	12767.23k	12779.52k	76,57	78,99	79,28	101,62	143,50
DES-EDE3-CBC (192 bit key, 64 bit block)	des-edc3-cbc	openssl speed -elapsed -evp des-edc3-cbc	7094.84k	7314.46k	7389.94k	7404.89k	7399.95k	12611.01k	13151.71k	13281.85k	13362.24k	13372.07k	77,75	79,80	79,73	80,45	80,70
DES-EDE3-CFB (192 bit key, 64 bit block)	des-edc3-cfb	openssl speed -elapsed -evp des-edc3-cfb	6754.38k	5255.89k	4862.81k	4853.76k	4904.28k	11969.14k	12561.84k	12676.82k	12704.50k	12735.83k	77,21	139,01	160,69	161,75	159,69
DES-EDE3-CFB1 (192 bit key, 64 bit block)	des-edc3-cfb1	openssl speed -elapsed -evp des-edc3-cfb1	94.35k	94.55k	94.59k	94.53k	94.34k	159.48k	159.22k	159.91k	159.49k	159.28k	69,03	68,40	69,06	68,72	68,84
DES-EDE3-CFB8 (192 bit key, 64 bit block)	des-edc3-cfb8	openssl speed -elapsed -evp des-edc3-cfb8	593.67k	691.73k	825.74k	834.25k	831.91k	1510.81k	1523.33k	1522.23k	1526.34k	1525.20k	154,49	120,22	84,35	82,96	83,34
DES-EDE3-OFB (192 bit key, 64 bit block)	des-edc3-ofb	openssl speed -elapsed -evp des-edc3-ofb	6745.03k	7009.92k	7082.41k	7100.07k	7097.00k	11903.85k	12557.93k	12705.26k	12765.18k	12773.32k	76,48	79,15	79,39	79,79	79,98
DES-OFB (64 bit key, 64 bit block)	des-ofb	openssl speed -elapsed -evp des-ofb	16220.25k	17439.61k	17839.54k	17953.81k	18023.23k	27416.63k	30913.82k	31986.01k	32216.35k	32203.17k	69				