



### RAW NUMBERS

	Amazon Fire	Samsung Galaxy Note GT-N5110	Google Nexus 7	NVIDIA SHIELD	Apple iPad mini 2	Apple iPad Air	Samsung S6 edge +	Apple iPhone 6s Plus
<b>Basic specs</b>								
Year introduced	2015	2013	2012	2014	2013	2013	2015	2015
Display (")	7	8	7	8	7.9	9.7	5.66	5.5
Res W	976	1280	1280	1920	2048	2048	2560	1920
Res H	600	800	800	1200	1536	1536	1440	1080
Pixels	585,600	1,024,000	1,024,000	2,304,000	3,145,728	3,145,728	3,686,400	2,073,600
PPI	160	188	251	283	326	264	518	326
Memory (GB)	0.867	1.825	0.975	1.927	1.024	1.024	3.663	2.048
Storage (GB)	5.63	9.87	13.36	25.63	16	16	24.3	16
SoC	MT8127	Exynos 4412	Tegra 3	Tegra K1	Apple A7	Apple A7	Exynos 7420	Apple A9
CPU	ARM A7	ARM A9	ARM A9	ARM 15	Cyclone	Cyclone	ARM A57/53	Twister
Bits	32	32	32	64	64	64	64	64
MHz	1300	1600	1300	2220	1300	1400	2100	1850
CPU cores	4	4	5	4	2	2	8	2
GPU	Mali 450 MF	Mali 400 MP	Tegra 3	Tegra 4	PVR G6430	PVR G6430	Mali T760	PVR GT17600
Max WiFi (Ghz.)	2.4	5	2.4	5	a/b/g/n	a/b/g/n	b/g/n/ac	b/g/n/ac mimo
802.11	b/g/n	a/b/g/n	b/g/n	b/g/n	b/g/n	b/g/n	b/g/n	b/g/n
OS	Android 5.1	Android 4.4.2	Android 5.1.1	Android 5.1.1	iOS 9.0	iOS 9.0	Android 5.1.1	iOS 9.1
<b>GeekBench</b>								
Single Core	355	503	343	1,132	1,390	1,438	1,454	2,516
Multi Core	1,181	1,448	1,133	3,412	2,507	2,600	4,757	4,392
<b>Kraken 1.1</b>	16,331	11,131	16,579	4,283	6,125	4,045	7,504	1,773
<b>Octane 2</b>	2,352	4,103	2,774	8,366	5,111	5,463	8,212	15,959
<b>Basemark x 1.1</b>								
Medium	8,436	8,360	4,967	27,475	26,013	26,643	36,561	NA
High	1,693	3,119	DNR	27,696	14,667	15,140	29,276	NA
<b>3DMARK</b>								
<b>Ice Storm Unlimited Off-Screen 720</b>	4,660	3,718	3,292	29,691	9,507	14,876	23,960	27,819
gfx score	4,109	3,169	2,846	34,689	15,058	19,900	26,893	42,086
physics score	8,789	9,455	7,299	19,738	4,151	7,898	17,341	12,723
gfx test 1	15.5	10	12.5	206	74	104.5	147	230
gfx test 2	21.1	22.3	12.3	118	58	73	96	151
physics	27.9	30	23.2	62	13	25.1	55	40
<b>Ice Storm Extreme 1080P ES 2.0</b>	3,314	3,067	1,907	Maxed out	10,410	Maxed out	Maxed out	Maxed out
gfx score	2,866	2,567	1,588	Maxed out	11,691	Maxed out	Maxed out	Maxed out
physics score	7,321	9,646	6,399	Maxed out	7,524	Maxed out	Maxed out	Maxed out
gfx test 1	13.6	9.6	7.5	59	59	59	60	60
gfx test 2	11.5	13.4	6.4	52	44	45	50	57
physics	23.2	30.6	20.3	55	24	24	49	43
<b>Ice Storm 720P ES 2.0</b>	5,039	4,098	3,487	Maxed out	Maxed out	Maxed out	Maxed out	Maxed out
gfx score	4,565	3,492	3,097	Maxed out	Maxed out	Maxed out	Maxed out	Maxed out
physics score	7,911	10,452	6,238	Maxed out	Maxed out	Maxed out	Maxed out	Maxed out
gfx test 1	1507	10.4	11.9	59	59	59	60	60
gfx test 2	26.8	27.8	15.5	56	54	55	58	59
physics	25.1	33.2	20	56	25	25	50	43

Notes:  
 PCMark for Android would not install on the Amazon Fire Tablet.  
 3DMARK Slingshot will not run on Amazon Fire, Nexus 7, or Galaxy Note and therefor was not tested.  
 MI&S is still researching GeekBench MC to evaluate whether it accurately reflects mobile software and multi-CPU cores.  
 DNR= does not run  
 NA= not available in the app store

### COMPARED TO AMAZON FIRE TABLET

	Amazon Fire Baseline	Samsung Galaxy Note GT-N5110	Google Nexus 7	NVIDIA SHIELD	Apple iPad mini 2	Apple iPad Air	Samsung S6 edge +	Apple iPhone 6s Plus
<b>Basic specs</b>								
Year introduced	2015	2013	2012	2014	2013	2013	2015	2015
Display (")	1	1.14	1.00	1.14	1.13	1.39	0.81	0.81
Res W	1	1.31	1.31	1.97	2.10	2.10	2.62	2.62
Res H	1	1.33	1.33	2.00	2.56	2.56	2.40	2.40
Pixels	1	2	2	4	5.37	5	6.30	6
PPI	1	1.18	1.57	1.77	2.04	1.65	3.24	3.24
Memory (GB)	1	2.10	1.12	2.22	1.18	1.18	4.22	4.22
Storage (GB)	1	1.75	2.37	4.55	2.84	2.84	4.32	4.32
SoC	MT8127	Exynos 4412	Tegra 3	Tegra K1	Apple A7	Apple A7	Exynos 7420	Apple A9
CPU	ARM A7	ARM A9	ARM A9	ARM 15	Cyclone	Cyclone	ARM A57/53	Twister
Bits	1	1.00	1.00	1.00	2.00	2.00	2.00	2.00
MHz	1	1.23	1.00	1.71	1.00	1.08	1.62	1.62
CPU cores	1	1.00	1.25	1.00	0.50	0.50	2.00	2.00
GPU	Mali 450 MP	Mali 400 MP	Tegra 3	Tegra 4	PVR G6430	PVR G6430	Mali T760	PVR GT17600
Max WiFi (Ghz.)	1	2.08	2.08	2.08	2.08	2.08	2.08	2.08
802.11	b/g/n	a/b/g/n	b/g/n	b/g/n	a/b/g/n	b/g/n	b/g/n	b/g/n
OS	Android 5.1	Android 4.4.2	Android 5.1.1	Android 5.1.1	iOS 9.0	iOS 9.0	Android 5.1.1	iOS 9.1
<b>GeekBench</b>								
Single Core	1	1.42	0.97	3.19	3.92	4.05	4.10	7.09
Multi Core	1	1.23	0.96	2.89	2.12	2.20	4.03	3.72
<b>Kraken 1.1</b>	1	1.47	0.99	3.81	2.67	4.04	2.18	9.21
<b>Octane 2</b>	1	1.74	1.18	3.56	2.17	2.32	3.49	6.79
<b>Basemark x 1.1</b>								
Medium	1	0.99	0.59	3.26	3.08	3.16	4.33	NA
High	1	1.84	DNR	16.36	8.66	8.94	17.29	NA
<b>3DMARK</b>								
<b>Ice Storm Unlimited Off-Screen 720</b>	1	0.80	0.71	6.37	2.04	3.19	5.14	5.97
gfx score	1	0.77	0.69	8.44	3.66	4.84	6.54	10.24
physics score	1	1.08	0.83	2.25	0.47	0.90	1.97	1.45
gfx test 1	1	0.65	0.81	13.29	4.77	6.74	9.48	14.84
gfx test 2	1	1.06	0.58	5.59	2.75	3.46	4.55	7.16
physics	1	1.08	0.83	2.22	0.47	0.90	1.97	1.43
<b>Ice Storm Extreme 1080P ES 2.0</b>	1	0.93	0.58	Maxed out	3.14	Maxed out	Maxed out	Maxed out
gfx score	1	0.90	0.55	Maxed out	4.08	Maxed out	Maxed out	Maxed out
physics score	1	1.32	0.87	Maxed out	1.03	Maxed out	Maxed out	Maxed out
gfx test 1	1	0.71	0.55	4.34	4.34	4.34	4.41	4.41
gfx test 2	1	1.17	0.56	4.52	3.83	3.91	4.35	4.96
physics	1	1.32	0.88	2.37	1.03	1.03	2.11	1.85
<b>Ice Storm 720P ES 2.0</b>	1	0.81	0.69	Maxed out	Maxed out	Maxed out	Maxed out	Maxed out
gfx score	1	0.76	0.68	Maxed out	Maxed out	Maxed out	Maxed out	Maxed out
physics score	1	1.32	0.79	Maxed out	Maxed out	Maxed out	Maxed out	Maxed out
gfx test 1	1	0.01	0.01	0.04	0.04	0.04	0.04	0.04
gfx test 2	1	1.04	0.58	2.09	2.01	2.05	2.16	2.20
physics	1	1.32	0.80	2.23	1.00	1.00	1.99	1.71

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