Build Targets

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Release Note: This document can be shared with customers.

Android Build Targets

This document describes the available build targets, and a brief description of each. The following table describes the Google reference design, and the chipset that is based on.

Google Device	Chipset	Broadcom Reference Board Hardware
avko	7252S	BCM7252SSFFG, BCM7252SSFFDR4*
banff	7251S	BCM7251SSFFDR4
cypress	7271(B0)	BCM7271T
dawson	7268(B0)	BCM7268USFF4AL
elfin	72604(A0)	BCM72604USFF
fundy	7278(BX)	BCM7278IPA
grouse	72604(B0)	BCM72604BUSFF

* requires using "avkodr4" device profile

AVKO (7252S)

Target	RTS Box Mode*	Full Treble Support	A|B Update Support	Description
avko	5	No	No	Official reference target for "avko".
avko_nvi	5	No	No	nvi', also known as non-vendor-image, is Identical to 'avko', except that there is no vendor partition, and the vendor directory is a part of the system image. This target is intended for customers that upgraded from older Android release (e.g. N-MR1) that prefer to keep the gpt intact.
avkodr4	5	No	No	DDR4 variant of "avko", requires 7252SFFDR4 hardware.

aosp_avko	5	No	No	aosp' variant required by Google. This build does not include launcher, so Android would stay on boot animation after boot.

BANFF (7251S)

Target	RTS Box Mode*	Full Treble Support	A|B Update Support	Description
banff	1	No	No	Official reference target for "banff".
banff_nvi	1	No	No	nvi', also known as non-vendor-image, is Identical to 'banff', except that there is no vendor partition, and the vendor directory is a part of the system image. This target is intended for customers that upgraded from older Android release (e.g. N-MR1) that prefer to keep the gpt intact.
aosp_banff	1	No	No	aosp' variant required by Google. This build does not include launcher, so Android would stay on boot animation after boot.

CYPRESS (7271)

Target	RTS Box Mode*	Full Treble Support	A|B Update Support	Description
cypress	2	Yes	Yes	Official reference target for "cypress".
cypress_nab	2	Yes	No	"cypress" equivalent without A|B mode support (single slot, recovery mode OTA).
cypress_3gb	2	Yes	No	Experimental. "cypress" profile for 3GB EMMC Memory Layout. Cannot support DTU.
cypress_ms12d	2	Yes	No	"cypress" device with MS12D feature support.
cypress_nvi	2	No	No	nvi', also known as non-vendor-image, is Identical to 'cypress', except that there is no vendor partition, and the vendor directory is a part of the system image. This target is intended for customers that upgraded from older Android release (e.g. N-MR1) that prefer to keep the gpt intact.
cypressd	7	Yes	Yes	Multi decode and MS12 support
aosp_cypress	2	No	No	aosp' variant required by Google. This build does not include launcher, so

				Android would stay on boot animation after boot.

DAWSON (7268)

Target	RTS Box Mode*	Full Treble Support	A|B Update Support	Description
dawson	2	Yes	Yes	Official reference target for "dawson".
dawson_nab	2	Yes	No	"dawson" equivalent without A|B mode support (single slot, recovery mode OTA).
dawson_nvi	2	No	No	nvi', also known as non-vendor-image, is Identical to 'dawson', except that there is no vendor partition, and the vendor directory is a part of the system image. This target is intended for customers that upgraded from older Android release (e.g. N-MR1) that prefer to keep the gpt intact.
aosp_dawson	2	No	No	aosp' variant required by Google. This build does not include launcher, so Android would stay on boot animation after boot.

ELFIN (72604A0)

Target	RTS Box Mode*	Full Treble Support	A|B Update Support	Description
elfin	4	Yes	Yes	Official reference target for "elfin".
elfin_nab	4	Yes	No	"elfin" equivalent without A|B mode support (single slot, recovery mode OTA).
elfin_nvi	4	No	No	nvi', also known as non-vendor-image, is Identical to 'elfin', except that there is no vendor partition, and the vendor directory is a part of the system image. This target is intended for customers that upgraded from older Android release (e.g. N-MR1) that prefer to keep the gpt intact.
elfin_ms10	4	Yes	Yes	"elfin" device with MS10 support.
elfin_ms11	4	Yes	Yes	"elfin" device with MS11 support.
elfin_ms12d	4	Yes	Yes	"elfin" device with MS12D support. Netflix certification target.
elfin_mini	4	Yes	Yes	Experimental / Do not use. 1.5GB memory. 4k max decode / 1080p graphics. Requires a custom bootloader.
elfin_hd	4	Yes	Yes	Experimental / Do not use. 1GB memory. 1080p60 max decode / 720p graphics. Requires a custom bootloader.
elfin_fhd	4	Yes	Yes	Experimental / Do not use. 1GB memory.

				1080p60 max decode / 1080p graphics. Requires a custom bootloader.
elfin_msd	4	Yes	Yes	Experimental / Do not use. "elfin" device with MSD HAL integration. Requires MSD HAL delivery from Dolby.
elfin_dd	4	Yes	Yes	Experimental / Do not use. "elfin" device with dual-decoder support.
elfin_dd_ms12d	4	Yes	Yes	Experimental / Do not use. "elfin" device with dual-decoder and MS12D support.
elfink64	4	Yes	Yes	Experimental: kernel 64-bit, android 32-bit support. Do not use.
aosp_elfin	4	No	No	aosp' variant required by Google. This build does not include launcher, so Android would stay on boot animation after boot

FUNDY (7278)

Target	RTS Box Mode*	Full Treble Support	A|B Update Support	Description
fundy	2	Yes	Yes	Official reference target for "fundy".
fundy_ms12d	2	Yes	Yes	"fundy" device with MS12D support.
fundy_dd_ms12d	2	Yes	Yes	Experimental / Do not use. "fundy" device with dual-decoder and MS12D support.

GROUSE (72604B0)

Target	RTS Box Mode*	Full Treble Support	A|B Update Support	Description
grouse	4	Yes	Yes	Official reference target for "grouse".
grousepck	4	Yes	Yes	"grouse" build for BCM972604PCK reference design
grouse_dd	4	Yes	Yes	Experimental / Do not use. "grouse" device with dual-decoder support.
grouse_dd_ms12d	4	Yes	Yes	Experimental / Do not use. "grouse" device with dual-decoder and MS12D support.
grouse_ms12d	4	Yes	Yes	"grouse" device with MS12D support

*: RTS box mode is defaulted to 0 in bolt, which may or may not be equal to the value listed here. However, the RTS box mode value will get override to export B_REFSW_BOXMODE with the listed value on Linux during boot. Please see init.rts.rc.