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# Build Targets

## Broadcom Proprietary and Confidential

Release Note: This document can be shared with customers.

### Android Build Targets

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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

\* requires using "avkodr4" device profile

### AVKO (7252S)

Target	RTS Box Mode*	Full Treble Support	A B Update Support	Description
<b>avko</b>	5	No	No	Official reference target for "avko".
<b>avko_nvi</b>	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.
<b>avkodr4</b>	5	No	No	DDR4 variant of "avko", requires 7252SFFDR4 hardware.
<b>aosp_avko</b>	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
<b>banff</b>	1	No	No	Official reference target for "banff".
<b>banff_nvi</b>	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.
<b>aosp_banff</b>	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
<b>cypress</b>	5	Yes	Yes	Official reference target for "cypress".
<b>cypress_nab</b>	5	Yes	No	"cypress" equivalent without A B mode support (single slot, recovery mode OTA).
<b>cypress_nvi</b>	5	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.
<b>cypressd</b>	6	Yes	Yes	Multi decode and MS12 support
<b>aosp_cypress</b>	5	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
<b>dawson</b>	5	Yes	Yes	Official reference target for "dawson".
<b>dawson_nab</b>	5	Yes	No	"dawson" equivalent without A B mode support (single slot, recovery mode OTA).
<b>dawson_nvi</b>	5	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.
<b>dawson64</b>	5	Yes	Yes	Experimental for 64-bit support. Do not use.
<b>dawsonk64</b>	5	Yes	Yes	Experimental: kernel 64-bit, android 32-bit support. Do not use.
<b>aosp_dawson</b>	5	No	No	'aosp' variant required by Google. This build does not include launcher, so Android would stay on boot animation after boot.

## ELFIN (72604)

Target	RTS Box Mode*	Full Treble Support	A B Update Support	Description
<b>elfin</b>	5	Yes	Yes	Official reference target for "elfin".
<b>elfin_nab</b>	5	Yes	No	"elfin" equivalent without A B mode support (single slot, recovery mode OTA).
<b>elfin_nvi</b>	5	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.
<b>elfin_ms12d</b>	5	Yes	Yes	Experimental. MS12 config D support.
<b>elfin_mini</b>	5	Yes	Yes	Experimental / do not use. 1.5GB memory. 4k max decode / 1080p graphics. Requires a custom bootloader.
<b>elfin_hd</b>	5	Yes	Yes	Experimental / do not use. 1GB memory. 1080p60 max decode / 720p graphics. Requires a custom bootloader.
<b>elfin_fhd</b>	5	Yes	Yes	Experimental / do not use. 1GB memory. 1080p60 max decode / 1080p graphics. Requires a custom bootloader.
<b>elfink64</b>	5	Yes	Yes	Experimental: kernel 64-bit, android 32-bit support. Do not use.
<b>aosp_elfin</b>	5	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
<b>fundy</b>	2	Yes	Yes	Official reference target for "fundy".

\*: 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`.