



A module/product solution provider

OMAP4 Android 5.1 Release Note

V0.1.0

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BSP information

- Android: Android Lollipop 5.1.1 (BUILD_ID: LMY49I)
- OS kernel. 3.4.48
- Toolchain: Android linux-x86 toolchain arm-eabi-4.8
- Reference hardware platforms: TI OMAP4 Blaze Tablet 2
- Build Host OS: Ubuntu 14.04 64-bit

Reference Platform Specification

Main Systems

- Cortex-A9 Microprocessor Unit
- Digital Signal Processor Subsystem
- Cortex-M3 MPU Subsystem

Media Codec

- H.264: Constrained Baseline Profile (CBP), Main Profile (MP), High Profile (HP) for decode and encode
- MPEG-4 Visual: Simple Profile (SP) and Advanced Simple Profile (ASP) for decode, SP for encode
- H.263: Profiles 0 and 3 for decode, Profile 0 for encode
- MPEG-2: Upto Simple Profile Main Level, Main Profile High Level for decode

Peripherals

- 1 x WXGA 10.4" LCD Panel
- 1 x Stereo Speaker
- 2 x Digital Microphones
- 1 x HDMI Output Port
- 1 x Headphone Jack
- 2 x Camera Kit Connectors
- 1 x Micro-USB OTG Connector
- 1 x Temperature Sensor
- 1 x Pressure Sensor
- 1 x Digital Compass
- 1 x Gyroscope
- 2 x Accelerometers
- 1 x Wi-Fi/BT/GPS WiLink7 module

Known Issues on the reference platform

- Audio path and volume settings are not fine tuned on the reference platform

Android Features

Generic Features

Use case	5.1
Video	
AV Playback	Yes
AV Streaming	Yes
Audio	
Audio Playback	Yes
Audio Playback Multichannel	Yes
Audio Recording	Yes
Audio Streaming	Yes
FM Radio	Yes
System notifications	Yes
Camera&Imaging	
Video Record	Yes
Image Capture	Yes
Image Viewer	Yes
Graphics	
2D GFX	Yes
3D GFX	Yes
Gaming	Yes
Sensors&Input	
Touch screen (multitouch)	Yes
Accelerometer	Yes

Use case	5.1
Vibration	Yes
Gyro	Yes
Temperature	Yes
Proximity	Yes
Pressure	Yes
USB Keyboard	Yes
USB Mounse	Yes
USB Joystick	Yes
Tilt Detector Sensor	Yes
Heart rate sensor	Yes
Interaction composite sensors	Yes
Storage	
USB Mass storage (MTP/BOT)	Yes
USB Host mode	Yes
Connectivity	
WLAN	Yes
Internet browsing	Yes
3G/SoftAP	Yes
Bluetooth	Yes
GPS	Yes
NFC	Yes
Bluetooth Low Energy	Yes

Supported Media Formats

Audio/Video	5.1
Audio output	
Int. Speakers	Yes

Audio/Video	5.1
Headset	Yes
Headphones	Yes
BT-A2DP	Yes
BT-HSP	Yes
HDMI	Yes
WFD	Yes
USB-Stereo	Yes
FM	Yes
Audio codecs	
AAC LC	Yes
HE-AACv1	Yes
HE-AACv2	Yes
AAC ELD	No
NB-AMR	Yes
WB-AMR	Yes
MP3	Yes
WMA	No ¹
Vorbis	Not tested ²
PCM	Not tested
MIDI	No
FLAC	Not tested
OPUS	Yes
Audio containers	
.3gp	Yes
.mp4	Yes
.m4a	Yes
.aac	Yes

1 “No” means the format is not directly supported by OMPA4

2 “Not tested” means the format may not work correctly on OMAP4 since it hasn’t been tested yet

Audio/Video	5.1
.mp3	Yes
.wma	Not tested
.mid	Not tested
.ogg	Not tested
.mkv	Not tested
.wav	No
Video codecs	
H.263	Yes
H.264	Yes
MPEG4	Yes
MPEG2	Yes
VC-1 (WMV)	Yes
VP8	Not tested
H.265/HEVC	No
Video containers	
.3gp	Yes
.mp4	Yes
.wmv	Not tested
.mkv	Yes
.avi	Yes
.mpg	Not tested
.webm	Not tested