

## State-of-the-art Phablets

## ISA Support (source: ARM Holdings)

### Common Properties

- OS: Android 4.1.2 (Jelly Bean)
- RAM: 1GB
- Screen Size: 5" (12.7 cm)
- Camera: 8MP rear, 2MP front, Flash, Autofocus
- FM Radio

Cortex-A7	Cortex-A9
ARM	ARM
Thumb-2	<a href="#">Thumb®-2 / Thumb</a>
<a href="#">TrustZone® security technology</a>	
	<a href="#">Jazelle® DBX and RCT</a>
NEON™ Advanced SIMD	<a href="#">Advanced SIMD NEON™ unit</a> (Optional)
DSP & SIMD extensions	<a href="#">DSP extension</a>
VFPv4 Floating point	<a href="#">Floating Point Unit</a> (Optional) VFPv3]
Hardware virtualization support	
Large Physical Address Extensions (LPAE)	

Properties of Lead Models	<a href="#">Micromax A116 Canvas HD</a>	<a href="#">Samsung GT-i9082 Galaxy Grand [Duos]</a>
<b>Price</b> in India as of Feb 21, 2013	<a href="#">\$258 lowest retail</a> / <a href="#">\$278 list</a>	<a href="#">\$360 lowest retail</a> / <a href="#">\$400 list</a>
Announcement Date in India	<a href="#">Jan 21, 2013</a>	<a href="#">Jan 22, 2013</a> (ww: <a href="#">Dec 18, 2012</a> )
Release Date in India	Feb 14, 2013	Jan 21, 2013
Target market	1. <i>Shared with MediaTek in India:</i> <a href="#">Mid to high-end</a> smart device owners desiring the <a href="#">best possible experience</a> 2. <i>MediaTek sharing with ARM worldwide:</i> <a href="#">Performance and features associated with high-end</a> mobile devices <a href="#">to mass-market</a> smartphones and tablets	1. <i>India:</i> All consumers requiring a <a href="#">redefined smartphone experience</a> 2. <i>Worldwide:</i> Users with <a href="#">fast-paced mobile lifestyles</a> who <a href="#">demand more</a> from their phone
<b>SoC</b> – Announcement Date	MediaTek <a href="#">MT6589</a> – <a href="#">Dec 11, 2012</a>	Broadcom <a href="#">BCM28155</a> – <a href="#">Feb 27, 2012</a>
<b>Microarchitecture</b>	Cortex-A7	Cortex-A9
<b>Number of Cores</b>	<a href="#">4</a>	<a href="#">2</a>
Frequency	1.2 GHz	1.2 GHz
Single Core Performance (ARM)	2,280 DMIPS	3,000 DMIPS
Memory: user/intern. + extern.	<a href="#">1.77GB</a> / <a href="#">4GB</a> + microSD up to <a href="#">32GB</a>	<a href="#">4GB</a> / <a href="#">8GB</a> + microSD up to <a href="#">64GB</a>
<b>Screen Type</b>	IPS	TFT LCD with <a href="#">mDNie</a> (mobile <a href="#">Digital Natural Image engine</a> )
Color Depth	True color (16.7 M)	16M
<b>Screen Resolution</b>	<a href="#">1280 x 720</a> (HD)	<a href="#">480 x 800</a> (WVGA)
<b>Pixel Density</b>	<a href="#">294 ppi</a>	<a href="#">187 ppi</a>
<b>GPU</b>	PowerVR™ Series5XT [ <a href="#">SGX544MP</a> ]	Broadcom <a href="#">VideoCore-IV</a> ( <a href="#">acquired</a> )
NenaMark2 avg (max, min)	<a href="#">40.61</a> (41.0, 40.2)	<a href="#">53.54</a> (59.7, 27.3)
GLBenchmark 2.5 Egypt HD C24Z16 - Offscreen (1080p) avg	<a href="#">1078</a> Frames (9.5 Fps)	<a href="#">1265</a> Frames (11.2 Fps)
GLBenchmark 2.5 Egypt HD C24Z16 - Onscreen avg	<a href="#">1345</a> Frames (11.9 Fps)	<a href="#">2114</a> Frames (18.7 Fps)
<b>Video Playback &amp; Recording</b>	<a href="#">HD (720p)</a> 30fps (MPEG-4 Simple / H.263) <a href="#">Download HD quality videos and watch them on the phone without compromising with the quality</a>	<a href="#">Full HD(1080p)</a> 30fps <a href="#">Industry's lowest power full HD (in H1'12) video recording in a cell phone with 1080p vs. current generation handsets</a>
Video Formats Supported	- H.264 encoder: baseline HVGA @15fps - MPEG-4 Simple / H.263 encoder @30fps	MPEG4, H.263, H.264, VC-1, WMV9
Audio Formats Supported	MP3,AAC,AAC+, e AAC+, AMR, WB-AMR, MIDI, Ogg, PCM	MP3, AAC, AAC+, eAAC+, WMA
Wi-Fi	802.11b/g/n	802.11b/g/n 2.4GHz
HSDPA	21Mbps	21Mbps
HSUPA	<a href="#">11Mbps</a>	<a href="#">5.76Mbps</a>
Frequency Band - HSPA	2100 MHz (India)	850/1900/2100 MHz (SIM 1 only)
Frequency Band - EDGE/GPRS	900/1800/1900 MHz (India)	850/900/1800/1900 MHz
SIM Support	Dual SIM Dual Standby	Dual SIM Dual Standby
Sensors	Proximity, Light, Motion,Gravity	Proximity, Light, Accelerometer, Digital Compass, Gyro
Battery Capacity	2100 mAh	2100 mAh
<b>Standby Time</b>	<a href="#">174hrs</a>	<a href="#">440hrs</a>
<b>Talktime</b>	<a href="#">5hrs</a>	<a href="#">10hrs 10min</a>
Others	<a href="#">Micro USB (5 pin)</a> , USB 2.0, BT 4.0	<a href="#">Zero Shutter Lag</a> , <a href="#">Wi-Fi Direct</a> , USB 2.0, BT 4.0
Dimension (HxWxD)	144 x 74 x 10.7 mm	143.5 x 76.8 x 9.6mm
Weight	168 g (with battery)	161g