

Phone comparison for use on boats with navigation software

(see key at bottom)



Apple iPhone 3GS

HTC Desire

HTC Advantage X7510

Samsung i900 Omnia

Samsung i8000 Omnia II

	Apple iPhone 3GS	HTC Desire	HTC Advantage X7510	Samsung i900 Omnia	Samsung i8000 Omnia II	
General	GSM 850 / 900 / 1800 / 1900	GSM 850 / 900 / 1800 / 1900	GSM 850 / 900 / 1800 / 1900	GSM 850 / 900 / 1800 / 1900	GSM 850 / 900 / 1800 / 1900	
3G Network	HSDPA 850 / 1900 / 2100	HSDPA 900 / 2100	HSDPA 2100 (UMTS 850 / 1900 - American version)	HSDPA 2100	HSDPA 900 / 1900 / 2100	
Announced	2009, June	2010, February	2008, February	2008, June	2009, June	
Status	Available. Released 2009, June	Available. Released 2010, March	Available. Released 2008, June	Available. Released 2008, July	Available. Released 2009, July	
Size	115.5 x 62.1 x 12.3 mm	119 x 60 x 11.9 mm	133 x 98 x 16 mm	112 x 56.9 x 12.5 mm	118 x 59.6 x 12.3 mm	
Weight	135 g	135 g	375 g	122 g	123 g	
Display	TFT capacitive touchscreen, 16M colors 320 x 480 pixels, 3.5 inches - Multi-touch input method	AMOLED capacitive touchscreen, 16M colors 480 x 800 pixels, 3.7 inches - Multi-touch input method	TFT resistive touchscreen, 256K colors (65K effective) 640 x 480 pixels, 5.0 inches - QWERTY keyboard	TFT resistive touchscreen, 256K colors (65K effective) 240 x 400 pixels, 3.2 inches - Accelerometer sensor for auto-rotate	AMOLED resistive touchscreen, 16M colors (65K effective colors) 480 x 800 pixels, 3.7 inches - TouchWiz 2.0 UI	
	- Accelerometer sensor for auto-rotate - Proximity sensor for auto turn-off - Scratch-resistant surface	- Accelerometer sensor for UI auto-rotate - Proximity sensor for auto turn-off - Optical trackball	- Handwriting recognition	- Optical trackpad - Handwriting recognition	- Proximity sensor for screen auto turn-off and ambient light sensor - Accelerometer sensor for auto-rotate - Handwriting recognition	
Sound	Vibration; Downloadable polyphonic, MP3 ringtones Alert types Yes - 3.5 mm headset jack	Vibration, MP3 Yes - 3.5 mm audio jack	Downloadable polyphonic, MP3 ringtones Yes, with stereo speakers - 3.5 mm audio jack - Dual speakers	Vibration; Downloadable polyphonic, MP3 ringtones Yes	Vibration; MP3, WAV ringtones Yes - 3.5 mm audio jack - DNSe (Digital Natural Sound Engine)	
Memory	Phonebook Call records Internal Card slot	Practically unlimited entries and fields, Photocall 100 received, dialed and missed calls 16 GB/ 32 GB storage, 256 MB RAM No	Practically unlimited entries and fields, Photocall Practically unlimited 576 MB RAM; 512 MB ROM microSD, up to 32GB, 4GB included	Practically unlimited entries and fields, Photocall Practically unlimited 128 MB RAM, 256 MB ROM microSD, up to 16GB (verified)	Practically unlimited entries and fields, Photocall Practically unlimited 256 MB RAM, 512 MB ROM microSD, up to 32GB	
Data	GPRS EDGE 3G WLAN Bluetooth Infrared port USB	Yes Yes HSDPA, 7.2 Mbps Wi-Fi 802.11b/g Yes, v2.1 with A2DP, headset support only No Yes, v2.0	Class 10 (4+1/3+2 slots), 32 - 48 kbps Class 10, 236.8 kbps HSDPA, 7.2 Mbps; HSUPA, 2 Mbps Wi-Fi 802.11 b/g Yes v2.1 with A2DP No Yes, microUSB v2.0	Yes Yes Class 12 (4+1/3+2/2+3/1+4 slots), 32 - 48 kbps Class 12 HSDPA, 7.2 Mbps Wi-Fi 802.11b/g Yes, v2.0 with A2DP No Yes, v2.0	Class 12 (4+1/3+2/2+3/1+4 slots), 32 - 48 kbps Class 12 HSDPA, 7.2 Mbps; HSUPA, 5.76 Mbps Wi-Fi 802.11 b/g, DLNA Yes, v2.0 with A2DP No Yes, microUSB v2.0	
Camera	Primary Features Video Secondary	3.15 MP, 2048x1536 pixels, autofocus Touch focus, geo-tagging Yes, VGA@30fps, video geo-tagging No	5 MP, 2592 x 1944 pixels, autofocus, LED flash Smile detection, geo-tagging Yes, WVGA (800x480 pixels) @ 15fps No	3.15 MP, 2048x1536 pixels, autofocus, LED flash Geo-tagging, face and smile detection, image stabilization, wide dynamic range Yes VGA videocall camera	5 MP, 2592x1944 pixels, autofocus, LED flash Geo-tagging, face and smile detection, mobile blogging Yes, 720x480@30fps VGA videocall camera	
OS	iPhone OS (based on Mac OS)	Android OS, v2.1 (Eclair)	Microsoft Windows Mobile 6.0 Professional	Microsoft Windows Mobile 6.1 Professional	Microsoft Windows Mobile 6.1 Professional, upgradeable to Windows Mobile 6.5	
CPU	ARM Cortex A8 600 MHz, PowerVR SGX535 graphics	Qualcomm Snapdragon QSD8250 1 GHz processor	Marvell PXA270 624 MHz processor	Marvell PXA312 624 MHz processor	Samsung S3C6410 800MHz processor, dedicated graphics accelerator	
Messaging	SMS (threaded view), MMS, Email	SMS(threaded view), MMS, Email, Push Email, IM	SMS, MMS, Email, Instant Messaging	SMS (threaded view), EMS, MMS, Email, Instant Messaging	SMS(threaded view), MMS, Email, IM	
Browser	HTML (Safari)	HTML	WAP 2.0/xHTML, HTML (Opera 9)	WAP 2.0/xHTML, HTML, RSS feeds	HTML, Opera Browser v9.5	
Radio	No	Stereo FM radio with RDS	No	Stereo FM radio with RDS	Stereo FM radio with RDS; FM recording	
Games	Downloadable, incl. motion-based	Yes	Yes	Yes + Java downloadable	Yes, 3D interactive games + downloadable	
Colors	Black, White	Brown, Silver	Black	Modern Black	Black, White, Pink	
GPS	Yes, with A-GPS support	Yes, with A-GPS support	Yes	Yes, with A-GPS support	Yes, with A-GPS support; navigation application	
Java	No	Via third party application	Yes, MIDP 2.0	Yes, MIDP 2.0	Yes, MIDP 2.0	
Features	- Digital compass - Google Maps - Audio/video player - TV-out - Voice command/dial	- Digital compass - Dedicated search key - Google Search, Maps, Gmail - YouTube, Google Talk, Picasa integration - MP3/AAC+/WAV/WMA9 player - MP4/H.263/H.264/WMV9 player - Facebook, Flickr, Twitter applications - Voice memo	- Voice memo - MP3/AAC/AAC+/WMA/OGG/AMR player - WMV/MP4 player - Pocket Office (Word, Excel, PowerPoint, PDF viewer) - File manager - TV-out	- MP3/AAC/AAC+/WMA/OGG/AMR player - DivX/XviD/WMV/MP4 player - TV-out - Voice memo	- Photo editor, video editor - DivX/XviD/MP4/H.263/H.264/WMV player - MP3/eAAC+/WMA/WMDRM/OMA DRM 2.1 player - Find Music service - Media Gate 3D - Google Search, Maps, Gmail - YouTube, Picasa, Facebook, Flickr, Twitter, Myspace, Friendster apps - Pocket Office (Word, Excel, PowerPoint, OneNote, PDF viewer) - TV-out - Mobile Tracker - Noise cancellation with dedicated microphone - Business card scanner	
Battery	Standard battery, Li-Ion Stand-by Talk time Music play	Standard battery, Li-Ion 1400 mAh Up to 300 h Up to 12 h (2G) / Up to 5 h (3G) Up to 30 h	Standard battery, Li-Ion 1400 mAh Up to 340 h (2G) / Up to 360 h (3G) Up to 6 h 40 min (2G) / Up to 6 h 30 min (3G)	Standard battery, Li-Po 2100 mAh Up to 300 h Up to 6 h 0.48 W/kg (head)	Standard battery, Li-Ion 1440 mAh Up to 500 h (2G) / 450 h (3G) Up to 5 h 50 min (2G) / 6 h 30 min (3G)	Standard battery, Li-Ion 1500 mAh Up to 430 h (2G) / Up to 430 h (3G) Up to 12 h (2G) / Up to 8 h (3G)
Misc	SAR US SAR EU	0.26 W/kg (head) 0.79 W/kg (body) 0.45 W/kg (head) 0.40 W/kg (body)		0.39 W/kg (head) 0.52 W/kg (body) 0.67 W/kg (head)	0.59 W/kg (head) 0.30 W/kg (body) 0.17 W/kg (head)	

KEY
Worrying feature
Good feature
Essential feature
Outstanding Feature