

Smartphone product comparison matrix

Manufacturer	Palm	Palm	HP	Nokia	Nokia	Apple
Model	Treo 650 (discontinued)	Treo 750	iPAQ hw6945 Mobile	N93	N91 8GB	iPhone
Price unlocked	\$699*	\$649	\$599.00	> \$700 average #	< \$700 average #	\$?, \$? + 100
Price with 2yr plan	\$449 Cingular **	\$399 Cingular	\$409.99 Cingular hw6925	N/A	N/A	\$499, \$599 Cingular
Processor	Intel PXA270 312MHz	Samsung 300MHz	Intel PXA270 416 MHz	TI OMAP2420, ARM1136 330MHz	TI OMAP1710, ARM926 220MHz	?
Operating system	Palm OS 5.4.7	Windows Mobile® 5.0	Windows Mobile® 5.0	Symbian OS 9.1 S60	Symbian OS 9.1	diet OS X (Leopard?)
User Storage	23 MB expandable to ?	60MB expandable to 2GB	45 MB expandable to ?	50MB expandable to 2GB	8GB microdrive ***	4GB, 8GB
Screen size	320 x 320 pixels	240 x 240 pixels	240 x 240 pixels	320x240 pixels	176x208 pixels	480 x 320 pixels
Touch Screen	Yes	Yes	Yes	No	No	Yes. Multi-touch
Camera	0.3 Megapixels	1.3 Megapixels	1.3 Megapixels	3.2 Megapixels Carl Zeiss optics. 3x optical zoom	2.0 Megapixels	2.0 Megapixels
Input method	Full keyboard and Phone Keypad	Full keyboard and Phone Keypad	Full keyboard and Phone Keypad	Phone Keypad	Phone Keypad	Multi touch Virtual keyboard, virtual phone keypad, customizable
Radio	Quad-band GSM/GPRS	Quad-band GSM/GPRS/EDGE	Quad-band GSM/GPRS/EDGE	3G Quad-band GSM/GPRS/EDGE	3G Quad-band GSM/GPRS/EDGE	Quad-band GSM/EDGE
WiFi	No	No	802.11b	802.11 b/g	802.11 b/g	802.11 b/g
Bluetooth	1.1	1.2	1.2	2.0	1.2	2.0 EDR
IrDA	Yes	Yes	Yes	Yes	No	No
GPS built in	No	No	Yes	No	No	No
Talk time	5 hours	4 hours	4 hours	5 hours	3 hours ****	5 hours / 16 hours music
Stand by time	336 hours	360 hours	168 hours	240 hours	190 hours	?
Dimensions LxWxD ~Vol	113 x 59 x 23 mm ~153cc	113 x 58 x 23 mm ~151cc	118 x 71 x 18 mm ~151cc	118 x 56 x 28 mm ~ 185 cc	113 x 55 x 22 mm ~137cc	115 x 61 x 11.6 mm ~ 81 cc
Weight	178 grams	154 grams	179 grams	180 grams	165 grams	135 grams
Form factor	Monoblock	Monoblock	Monoblock	Twisting display display with 160° viewing angle	Monoblock/Slide	Monoblock
Other notable features	650 used as point of reference and not part of the comparison		VPN Client, Ability to assign GPS location to photos as they are taken, USB 1.1	Flickr uploads, 30fps one hour DVD quality video, Video calling , FM Radio, Over-the-air download of Java-based applications and games	FM Radio	Visual Voicemail, Coverflow, Purchased DRM movies/ TV shows , Proximity sensor, Orientation accelerometer, Ambient light sensor

January 15, 2007 Approximate prices on Nokia phones N93 a bit more than the N91 8GB

* February 4, 2005 Palm revises Treo 650 price upwards after admitting pricing error

** February 4, 2005 \$549 for customers who already have a contract with Cingular

*** Nokia N91 8GB has no expansion slot like the Apple iPhone

**** Nokia's website compare product matrix states 3hours. Other non-Nokia websites state 4hours on the specifications

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