

WHITE PAPER

Sony Ericsson Naite

June 2009



Sony Ericsson

Purpose of this document

Sony Ericsson product White papers are intended to give an overview of a product and provide details in relevant areas of technology.

Document history

Version		
June 2009	First released version	Revision 1
June 2009	Second released version	Revision 2

Sony Ericsson Developer World

For the latest Sony Ericsson technical documentation and development tools, go to www.sonyericsson.com/developer

This White paper is published by:

Sony Ericsson Mobile Communications AB,
SE-221 88 Lund, Sweden

www.sonyericsson.com/

© Sony Ericsson Mobile Communications AB, 2008-2009. All rights reserved. You are hereby granted a license to download and/or print a copy of this document. Any rights not expressly granted herein are reserved.

First edition (June 2009)
Publication number: 1228-6681

This document is published by Sony Ericsson Mobile Communications AB, without any warranty*. Improvements and changes to this text necessitated by typographical errors, inaccuracies of current information or improvements to programs and/or equipment, may be made by Sony Ericsson Mobile Communications AB at any time and without notice. Such changes will, however, be incorporated into new editions of this document. Printed versions are to be regarded as temporary reference copies only.

*All implied warranties, including without limitation the implied warranties of merchantability or fitness for a particular purpose, are excluded. In no event shall Sony Ericsson or its licensors be liable for incidental or consequential damages of any nature, including but not limited to lost profits or commercial loss, arising out of the use of the information in this document.

Table of contents

Product overview	4
Organise your life in an eco-friendly way	4
Facts – dimensions, weight, performance and networks	5
Full feature list – categorised list of features	6
Technologies in detail	7
Device-to-device communications (local)	7
Bluetooth™ wireless technology	7
Java™	8
Messaging	8
(MMS) Multimedia Messaging Service.....	8
Email	9
Multimedia	10
Audio & Video.....	10
Provisioning (OMA CP, OMA DM)	11
Synchronisation (OMA DS, EAS)	11
Web browser	11
Trademarks and acknowledgements	13

Product overview

Organise your life in an eco-friendly way

Pick up the kids. Call the office. Buy flowers. Meet your daily deadlines with the Naite. You'll make it. Press once to access your messages, the calendar, Google™ search, your contacts. Use the shortcuts on the keypad. Why complicate things?

Keep on juggling

Getting pulled in different directions? Stay in touch with email or texting. On the fly. The emails come to you, if you want to. Take a snap, send it and show what words fail to capture. A happy toddler in a puddle. Times Square, NY. Or show and tell, face to face, with video calling.

Plan ahead to stay ahead

Time is precious. Save all the important dates in the Naite calendar. Birthdays, meetings, football practice. Then synchronise with your computer. Write a note and put it on the active desktop so you remember the small things too. Why not book a meeting with yourself, for some me-time?

Follow your green heart










What colour do you prefer, Vapour Silver or Ginger Red? The Naite is green, too. Recycled plastics, e-manual in the phone and a low power consumption charger to save energy. That's what makes it a Sony Ericsson GreenHeart™ phone. Want to make a difference? Show you care. Go green.



Facts – dimensions, weight, performance and networks

Size	108 x 47x 12.5mm
Weight	84 grams
Available colours	Vapour Silver Ginger Red
Main screen	
Colours	262,144 colour TFT
Resolution	240 x 320 pixels (QVGA)
Size (diagonal)	2.2 inches
Memory	
Phone memory	Up to 100 MB
Memory card support	SanDisk microSD™
Networks	
Naite J105a	UMTS HSPA 850 (Band V), 1900 (Band II), 2100 (Band I) GSM GPRS/EDGE 850, 900, 1800, 1900
Naite J105i	UMTS HSPA 2100 (Band I) GSM GPRS/EDGE 850, 900, 1800, 1900
Data transfer speeds	
GSM GPRS (Class 10)	Up to 91.2 kbps (download) Up to 45.6 kbps (upload)
GSM EDGE (Class 10)	Up to 236.8 kbps (download) Up to 118.4 kbps (upload)
UMTS HSPA (upload)	N/A
UMTS HSPA (download)	Up to 3.2 Mbps (downlink, HSDPA, cat 6)
Talk time (GSM)	
Talk time (GSM)	Up to 13 hours 48 mins
Standby time (GSM)	
Standby time (GSM)	Up to 600 hours
Talk time (UMTS)	
Talk time (UMTS)	Up to 4 hours 30 mins
Standby time (UMTS)	
Standby time (UMTS)	Up to 583 hours
Video call time	
Video call time	Up to 3 hours

Full feature list – categorised list of features

 <p>Camera 2 megapixel camera 2.5x digital zoom Photo feeds Photo fix Picture blogging Video blogging Video recording</p>	 <p>Music Album art Bluetooth™ stereo (A2DP) Media player MEGA BASS™ Music tones (MP3/AAC) PlayNow™ TrackID™</p>	 <p>Web Access NetFront™ web browser Bookmarks Google™ search Web feeds Web search (from standby) HTML 4.01 XHTML 1.1</p>
 <p>Communication Call list Conference calls Polyphonic ringtones Speakerphone Vibrating alert Video calling</p>	 <p>Messaging Conversations Email Microsoft Exchange ActiveSync® Instant messaging Picture messaging (MMS) Predictive text input Sound recorder (amr) Text messaging (SMS) Unified messaging</p>	 <p>Design Activity menu key Light Media browser Navigation key Picture wallpaper Wallpaper animation</p>
 <p>Entertainment 3D games FM radio Java™ Video streaming Video viewing YouTube™</p>	 <p>Organiser Alarm clock Calculator Calendar Flight mode Notes Phone book Stopwatch Tasks Timer</p>	 <p>Connectivity Bluetooth™ technology Google Maps™ Modem Synchronisation USB mass storage USB support</p>

Technologies in detail

***NOTE:** The information outlined below is general and levels of compliance to standards and specifications may vary between products and markets. For more information, contact Sony Ericsson Developers World or your Sony Ericsson contact person where applicable.

Device-to-device communications (local)

Bluetooth™ wireless technology

Bluetooth™ profiles supported	<ul style="list-style-type: none"> Advanced Audio Distribution Profile Audio/Video Remote Control Profile Basic Imaging Profile Dial-up Networking Profile File Transfer Profile Generic Access Profile Generic Object Exchange Profile Handsfree Profile Headset Profile Human Interface Device Profile Object Push Profile Personal Area Networking Profile Phonebook Access Profile Serial Port Profile Synchronisation Profile SyncML OBEX binding
Connectable devices	All products supporting Bluetooth spec. 1.1, or higher, and at least one of the profiles above

More information:

www.sonyericsson.com/developer

<http://www.bluetooth.com>

Java™

Java™ Platform, Micro Edition	JSR-75 PDA Optional Packages for J2ME™ JSR-82 Bluetooth Wireless Technology API JSR 118 MIDP 2.0 JSR-120 Wireless Messaging API JSR-205 Wireless Messaging API 2.0 JSR-135 Mobile Media API 1.1 JSR 139 CLDC 1.1 JSR-172 J2ME™ Web Services Specification JSR-177 Security and Trust Services API for J2ME™ JSR-179 Location API JSR-180 SIP API for J2ME™ JSR-184 Mobile 3D Graphics API for J2ME™ JSR 185 Java™ Technology for the Wireless Industry JSR-211 Content Handler API JSR-226 SVG API for J2ME™ JSR-229 Payment API JSR-234 Advanced Multimedia Supplements JSR-238 Mobile Internationalisation API JSR-239 OpenGL ES JSR-248 Mobile Services Architecture JSR-256 Mobile Sensor API (accelerometer) Nokia UI Extension API
Java 3D	Mascot Capsule Micro3D Version 3 JSR-239 OpenGL ES JSR-184 Mobile 3D Graphics API for J2ME™

Messaging

(MMS) Multimedia Messaging Service

According to OMA Multimedia Messaging Service v1.2 + SMIL

Email

Bearer type (IP)	GSM Data (IP) GPRS and HSCSD
Character sets	USASCII UTF-7 UTF-8 UTF-16 UTF-17LE UTF-16BE UCS-2 / ISO10646 UCS2 ISO-8859-1 ISO-8859-2 Eastern Europe ISO-8859-5 Cyrillic ISO-8859-7 Greek ISO-8859-9 Turkish ISO-8859-10 Nordic ISO-8859-11 Thai ISO-8859-15 Western MR5 KOI8 GB18030 Simplified Chinese GB2312 Simplified Chinese BIG5 ISO2022JP Windows 1251 Cyrillic Windows 1252 Windows 1254 Turkish Windows 1255 Hebrew Windows 1258 Vietnamese Shift JIS Note: GB2312 is only available in Simplified chinese variants only, i.e. China variants. BIG5 is only available in Traditional chinese variants, i.e. Hong Kong and Taiwan variants.
OTA provisioning solution	OMA Client Provisioning 1.1
Protocols	POP3, SMTP and IMAP4
Push email	IMAP IDLE (extension of IMAP4 Rev1), OMA Email Notification 1.0 and scheduled checking, Microsoft Exchange ActiveSync® (EAS)
Secure email	SSL/TLS, both port methods (POPS/IMAPS) and START-TLS
HTML mail	Yes

More information:

www.sonyericsson.com/developer

<http://www.openmobilealliance.org>

Multimedia

Audio & Video

Audio Playback	Decoder format Audio decoding MPEG-1/2/2.5, audio layer 3 AAC, AAC+, eAAC+ AMR-NB AMR-WB AMR-WB+ WMA version 2,7,8: Class 1 WMA version 9: Level 3 WMA Pro (profile M0a) General MIDI (GM) GML SP-MIDI DLS (Mobile DLS supported) Linear/A-law/.-law PCM iMelody	Supported in file format MP3 (.mp3) 3GP (.3gp); AAC (.aac); MP4 (.mp4, .m4a) 3GP (.3gp); AMR (.amr) 3GP (.3gp); AMR (.amr) ; AMR-WB (.awb) 3GP (.3gp); AMR (.amr) ; AMR-WB (.awb) WMA (.wma) WMA (.wma) WMA (.wma) SMF (.mid) SMF (.mid) SMF(.mid); XMF (.xmf, .mxmf) XMF (.xmf) WAV (.wav) iMelody (.imy)
Audio Recording	Encoder format AMR-NB AAC-LC	Supported in file format AMR (.amr) MP4 (.m4a)
Video Playback	Decoder format MPEG-4 Visual Simple Profile H.264 Baseline Profile H.263 Profile 0 VC-1 (WMV9)	Supported in file format 3GP (.3gp); MP4(.mp4) 3GP (.3gp); MP4(.mp4) 3GP (.3gp) ASF (.asf, .wmv)
Video Recording	Encoder format - Video: H.263 Profile 0 - Audio: AMR-NB" - Video: MPEG-4 Visual Simple Profile - Audio: AAC-LC"	Supported in file format 3GP (.3gp) MP4 (.mp4)
Audio/Video Streaming	Streaming transport	RTSP according to 3GPP™
DRM	DRM (Digital Rights Management) features the rights and copy protection of downloaded content.	OMA DRM 1.0, 2.0, 2.1 Microsoft DRM Janus

Provisioning (OMA CP, OMA DM)

OMA CP version 1.1

OMA DM version 1.1.2, 1.2

Related information

www.sonyericsson.com/developer

Synchronisation (OMA DS, EAS)

OMA Data Synchronisation protocol versions 1.1.2 and 1.2

OMA Data Formats: vCard 2.1, vCalendar 1.0, vBookmark 1.0, notes as text/plain

Microsoft Exchange ActiveSync® protocol version 2.5

Related information

www.sonyericsson.com/developer

Web browser

Browser version	Access NetFront 3.4
Bookmarks	Folders and sorting supported
Bookmark export/import	Bookmarks can be sent and received using vBookmark format using Bluetooth™, SMS, MMS and email
Navigation/rendering	Pan & Zoom Landscape/portrait rendering Full page PC rendering
Search	Internet Search Find on web page
Web feeds	Feeds detection in Browser Feeds ticker on Idle Screen Feeds reader Podcasting
Web albums	Publish to Picasa Publish to a social site Publish to Blogger

Web browser

Browser compliancy	HTML version. 4.01 XHTML Basic version 1.0 XHTML version 1.1 XHTML Mobile Profile version 1.1 WML 1.3 CSS 2.1 WCSS Version 26-Oct-2001 ECMA-script 262 3 :rd edition ECMAScript Mobile Profile 1.0 HTTPXMLRequest AJAX DOM 2.0 SVG Tiny, version 1.2
Protocol Compliancy	HTTP/1.1 TLS 1.0 and SSL 3.0 OMA Download 1.0 RSS 2.0

Related information

www.sonyericsson.com/developer

http://www.access-company.com/products/mobile_solutions

Trademarks and acknowledgements

The Liquid Identity logo, PlayNow and TrackID are trademarks or registered trademarks of Sony Ericsson Mobile Communications AB.

Sony and MEGA BASS are trademarks or registered trademarks of Sony Corporation.

NetFront is a trademark or a registered trademark of ACCESS Co., Ltd. Ericsson is a trademark of Telefonaktiebolaget LM Ericsson. TrackID is powered by Gracenote Mobile MusicID. Gracenote and Gracenote Mobile MusicID are trademarks or registered trademarks of Gracenote, Inc. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Sony Ericsson is under licence.

Google is a trademark or registered trademark of Google, Inc.

Wi-Fi is a trademark or registered trademark of the Wi-Fi Alliance. MicroSD and Transflash are trademarks or registered trademarks of SanDisk Corporation. XHTML is a registered trademark of the W3C. Adobe Flash Lite is a trademarks or registered trademark of Adobe Systems Incorporated in the United States and/or other countries.

Microsoft, Windows, Vista and ActiveSync are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

3GPP™ is a trademark of ETSI in France and other jurisdictions. SyncML is a trademark or registered trademark of Open Mobile Alliance Ltd. Java and all Java based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

All other trademarks and copyrights are the property of their respective owners.