

MT15i, MT15a

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

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Product overview

Xperia[™] neo — Smart. Sharp. And bright too

Dancers in the twilight. Breathtaking skateboard scenes. Shoot them sharp, even in low light. Take bright movies and photos using the 8.1 megapixel camera and Sony's award-winning Exmor™ R for mobile camera sensor. Then show it all on a sharper screen. With Sony's Mobile BRAVIA® Engine powering the super-sharp, multi-touch Reality display, you see colours and contrasts in a whole new light. Snap superb scenes in the sunset. Browse through the latest fashion catalogue. But don't forget your shades.

High octane fun on your TV. With HDMI™

Invite your friends to your big screen premiere. Just connect your phone to your HD TV using the built-in HDMI™ connector and start the show. Browse photos and videos using your TV's remote*. Bored already? Why not browse the web from Xperia™ neo to check out what's new on YouTube™**, or check out the games charts and download what's hot? All on your TV. Now that's entertainment.

More than 100,000 apps from Android Market™**

Find the app you'll love for doing what you like from Android Market^{™**}. There's an app for whatever you want for whatever makes you smile. More than 100,000 actually. Busy? Get more efficient. Fix the date on Google calendar^{™**}. Send your love by Gmail^{™**}. Find your friends using Google maps^{™**}. The whole world of Android[™] and more in store. From the Xperia[™] neo. One high quality phone with human curvature that's great to look at and good to hold.



*TV must be CEC compatible. Remote function only works for videos and photos, not for games or web browsing. Cable not included.

^{**}The service is not available in all markets.

Sony Ericsson signature features

Xperia[™] neo comes with a range of Sony Ericsson features as standard. Below is a summary of the key signature features.

Sony Ericsson Timescape™

The place to meet your friends

The Timescape[™] application manages all your communication with one person in one place. You can effortlessly browse by category your Facebook[™], Twitter[™], email and text communications, as well as view your photos. Now everything is all together and in chronological order, so you don't have to open different applications to see what's going on.

Infinite button

Everything you want - from everywhere

Tap the infinite button in the Timescape[™] application and smart filter each category of communication by person. For example, when viewing a text message from a friend in Timescape[™], tap the infinite button to view a list of all chat messages with that friend.

Sony Ericsson Sync

Your mobile life on the web

Synchronise your phone data using Sony Ericsson Sync so that you always have a backup. While you're at it, match your phone contacts with your Facebook[™] contacts. All your synchronised phone data is right at your fingertips and in your account on www.sonyericsson.com.

Sony Ericsson Local connectivity

More control over your media

Using Sony Ericsson Local connectivity, you can exercise more control over how media files get transferred and stored. For example, you can select MTP mode to transfer files if you want to limit the risk of data corruption or select MSC mode if you want to have more control over the data storage.

Sony Ericsson Home screen application

The place you call Home

Customise your Home screen with widgets, shortcuts, folders, themes, wallpaper and other items. Where's best for you? Email top right? Music player bottom left? You decide. With four extensions to your Home screen, you've got plenty of space to put things where you want. Just remember to flick left or right to find them.

^{*} Applications from the Android MarketTM vary widely in size, from less than 100 KB for small utilities to 3-4 MB for full games, music player applications, or other major offerings. The average size, if a representative selection of useful and fun applications is selected, is about 1 MB. This means that, on average, more than 100 applications can be downloaded and used on your device without negatively impacting performance. With the ready availability of the Android MarketTM application in the phone, it is also very easy to delete and later reinstall infrequently used applications.

^{**} **Note**: Some of the services mentioned above may not be available in all markets.

Facts – dimensions, weight, performance and networks

Operating system	Google™ Android™ 2.3 (Gingerbread)	
Processor	1 GHz Qualcomm Snapdragon MSM8255	
Size	116 x 57 x 13 mm	
Weight	126 grams	
Available colours	Blue Gradient Red Silver	
Main screen		
Colours	16,777,216 colour TFT	
Resolution	854x480 pixels	
Size (diagonal)	3.7 inches	
Scratch resistant	Yes	
Input mechanisms		
Text input	On-screen QWERTY keyboard	
Touch screen	Capacitive (multi-touch)	
Touch gesture	Yes – multi-touch	
Memory		
Internal phone storage	1 GB (up to 320 MB user-accessible memory)	
RAM	512 MB	
Expansion slot	microSD™, up to 32 GB	
Camera		
Camera resolution	8.1 megapixel	
Front facing camera	VGA	
Smart zoom	Up to 2.46x	
Video zoom	16x	
Photo flash	Yes – LED	
Video recording	Yes – HD 720p	
Video call camera (dedicated camera)	Yes	

Sensors		
Accelerometer	Yes	
Proximity sensor	Yes	
Ambient light sensor	Yes	
Magnetometer	Yes	
Networks		
MT15i	UMTS HSPA 900 (Band VIII), 2100 (Band I) GSM GPRS/EDGE 850, 900, 1800, 1900	
MT15a	UMTS HSPA 850 (Band V), 1900 (Band II), 2100 (Band I) GSM GPRS/EDGE 850, 900, 1800, 1900	
Data transfer speeds		
GSM GPRS	GSM GPRS: Up to 86 kbps	
GSM EDGE	GSM EDGE: Up to 237 kbps	
UMTS HSPA cat 6 (upload) 6 QPSK	Up to 5.76 Mbps	
UMTS HSPA cat 8 (download) 8 QPSK	Up to 7.2 Mbps	
Talk time (GSM)	Up to 6 hours 55 min*	
Standby time (GSM)	Up to 430 hours*	
Talk time (UMTS)	Up to 7 hours*	
Standby time (UMTS)	Up to 400 hours*	
Music listening time	Up to 31 hours	
Video playback time	Up to 7 hours 25 min	
Battery	1500 mAh	

^{*} Values are according to GSM Association Battery Life Measurement Technique.

NOTE: Battery performance may vary depending on network conditions and configurations, and phone usage.

Categorised feature list



Camera

3D sweep panorama 8.1 megapixel camera 2.46x smart zoom Aperture f/2.4 Auto focus Face detection Flash/LED Front-facing camera (VGA) Geo tagging HD video recording (720p) Image stabiliser Red-eye reduction Scene detection Self-timer Send to web Smile detection Sony Exmor R™ CMOS sensor Sweep panorama Touch capture Touch focus Video light Video recording



Music

Album art
Bluetooth™ stereo (A2DP)
Music tones (MP3/AAC)
PlayNow™ service*
Sony Ericsson Music player
TrackID™ music recognition*
xLOUD™



Internet

Android Market^{™**}
Bookmarks
Google[™] search*
Google Voice[™] Search*
Pan & zoom
Web browser (WebKit)



Video stabiliser

Communication

Call list
Conference calls
Facebook™ application*
Facebook inside Xperia™ 2.0
Google Talk™ video chat*
Noise Shield
Polyphonic ringtones
Sony Ericsson Timescape™
Speakerphone
Twitter™ (Timescape™
integration)*
Vibrating alert
Video chat ready



Messaging

Conversations
Email
Google Mail^{TM*}
Instant messaging
Multimedia messaging (MMS)
Predictive text input
Sound recorder
Text messaging (SMS)



Design

Auto rotation
Keyboard (on-screen, QWERTY)
Live wallpaper
Picture wallpaper
Reality Display with Mobile
BRAVIA® Engine
Screenshot capturing
Swipe to write
Touch screen



Entertainment

3D games Accelerated Adobe Flash Video Media browser Motion gaming Radio (FM radio with RDS) Sony Entertainment Networks* Video streaming YouTube™*



Organiser

Alarm clock Calculator Calendar Document readers E-Manual Flight mode

Google Calendar™* Google Gallery 3D* Infinite button Phonebook Setup Wizard Widget manager



Connectivity

3.5 mm audio jack aGPS Bluetooth™ technology

DLNA

Google Latitude™*

Google Maps™ with Street View*

HDMI™ support

Media Transfer Protocol support

Micro USB connector

Modem

Native USB tethering

Synchronisation via Facebook™*

Synchronisation via Google

SyncTM

Synchronisation via Sony Erics-

son Sync™

Synchronisation: Microsoft® Exchange ActiveSync®

USB mass storage

USB High speed 2.0 support

USB OTG Wi-Fi®

Wi-Fi® Hotspot functionallity

Wisepilot™ turn-by-turn

navigation*

^{*} This service is not available in all markets.

^{**} Applications from the Android Market™ vary widely in size, from less than 100 KB for small utilities to 3-4 MB for full games, music player applications, or other major offerings. The average size, if a representative selection of useful and fun applications is selected, is about 1 MB. This means that, on average, more than 100 applications can be downloaded and used on your device without negatively impacting performance. With the ready availability of the Android Market™ application in the phone, it is also very easy to delete and later reinstall infrequently used applications.

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 Developer World or your Sony Ericsson contact person where applicable.

Device-to-device communications (local

Bluetooth™ wireless technology

Bluetooth™ profiles supported	Advanced Audio Distribution Profile v.1.2 Audio/Video Remote Control Profile v.1.0 Handsfree Profile v.1.5 Headset Profile v.1.1 Object Push Profile v.1.1 Phonebook Access Profile v.1.0
Core version and supported core features	Advanced Audio 2.1 + EDR
Connectable devices	All products supporting Bluetooth™ spec. 2.1 and at least one of the profiles above.

More information:

www.sonyericsson.com/developer

www.bluetooth.com

Wi-Fi®

Supported standards	IEEE 802.11b/g/n and Wi-Fi
Connectable devices	Wi-Fi access points
Frequency band	2.4 GHz
Data transfer rate	72 Mbit/s
Security	WEP 64 bit WEP 128 bit TKIP CCMP (AES) Open Authentication Shared Authentication EAP-TLS EAP-TTLS/MSCHAPv2 PEAPv0/EAP-MSCHAPv2 PEAPv1/EAP-GTC WPA Personal and WPA2 Personal WPA Enterprise and WPA2 Enterprise
Encryption	WEP, TKIP and AES
Power save	WMM-UAPSD QoS, WMM

DLNA Certified™ (Digital Living Home Alliance)

Supported Device Classes	M-DMS – Mobile Digital Media Server Media Types: Images Summary: The digital media server exposes the media files in your phone to a Wi-Fi® network. The files can then be accessed from other DLNA Certified™ clients.
Supported Bearers	Wi-Fi®
DRM Support	The Sony Ericsson DLNA Certified™ implementation does not support DRM-protected content.

Messaging

MMS (Multimedia Messaging Service)

According to OMA Multimedia Messaging Service v1.0 + SMIL

Email

Bearer type (IP)	GPRS, EGPRS, UMTS	
Character sets	BIG5 Traditional Chinese GB2312 Simplified Chinese ISO-2022-JP Japanese ISO-8859-1 ISO-8859-2 Eastern Europe ISO-8859-5 Cyrillic ISO-8859-7 Greek ISO-8859-9 Turkish ISO 8859-11 KOI8-R Cyrillic Shift_JIS Japanese USASCII UTF-16 UTF-8 Windows® 874 Windows® 1251 Cyrillic Windows® 1252 Windows® 1254 Turkish	
Protocols	POP3 and IMAP4	
Push email	Microsoft® Exchange ActiveSync® (EAS)	
Secure email	SSL/TLS, both (POPS/IMAPS) and STARTTLS port methods	
HTML mail	Yes (read only)	

More information:

www.sonyericsson.com/developer

www.openmobilealliance.org

Positioning - location based services

Supported standards:

- OMA Secure User Plane Location (SUPL) v1.0
- 3GPP™ Control Plane location (incl. Emergency location)
- Qualcomm® GPSOneXtra™

Supported satellite systems:

GPS

GLONASS*

* **NOTE**: GPS and GLONASS are used together to calculate the position. With both systems active, the accuracy and robustness of the positioning is better in most conditions. The usage of GLONASS as an additional system is transparent both to users and developers, and the benefits are automatically available to applications currently using the Satellite Positioning API ("GPS Provider" in Android terminology).

Provisioning (OMA CP)

OMA CP version 1.1

Multimedia (audio, image and video)

Audio Playback	Decoder format	Supported in file format
	Audio decoding MPEG-1/2/2.5, audio layer 3	MP3 (.mp3), 3GPP (.3gp), MP4 (.mp4, .m4a)
	AAC, AAC+, eAAC+	3GPP (.3gp), MP4 (.mp4)
	AMR-NB, AMR-WB	3GPP (.3gp), MP4 (.mp4)
	General MIDI (GM)	SMF (.mid)
	Linear PCM 16bit	WAV (.wav)
	ОТА	OTA (.ota)
	Ogg vorbis	Ogg vorbis (.ogg)
Audio Recording	Encoder format	Supported in file format
	AMR-NB, AMR-WB	3GPP (.3gp), MP4 (.mp4), AMR (.amr)
	AMR-NB, AMR-WB, AAC-LC stereo, sample rate 48 kHz bit rate 128 kbps	3GPP (.3gp), MP4 (.mp4)
Image Playback	Decoder format	Supported in file format
	1, 4, 8, 16, 24 and 32 bpp and RLE encoded formats	BMP (.bmp)
	Single and multi-frame, bitmap mask support (GIF87a format and GIF89a format)	GIF (.gif)
	Joint Photographic Experts Group	JPEG (.jpg)
	Portable Network Graphics Bitmap mask support	PNG (.png)
	Wireless Bitmap	WBMP (.wbmp)
Image Capture	Encoder format	Supported in file format
	Joint Photographic Experts Group	JPEG (.jpg)
Video Playback	Decoder format	Supported in file format
	MPEG-4 Visual Simple Profile, Advanced Simple Profile Level 6	3GPP (.3gp), MP4 (.mp4)
	H.264 High Profile Level 3.1	3GPP (.3gp), MP4 (.mp4)
	H.263 Profile 0, Profile 3 Level 70	3GPP (.3gp)

Video Recording	Encoder format	Supported in file format
	Video H.263 Profile 0, H.264 Baseline Profile Audio: AAC-LC stereo, sample rate 48 kHz bit rate 128 kbps, AMR-NB	3GPP (.3gp), MP4 (.mp4)
Audio/Video Streaming	Streaming transport	RTSP according to 3GPP™ HTTP streaming
DRM	DRM (Digital Rights Management) – features the rights and copy protection of downloaded content	OMA DRM 1.0

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Synchronisation (OMA DS, EAS, Google Sync™)

OMA Data Synchronisation protocol versions 1.1.2 and 1.2

OMA Data Formats: vCard 2.1, vCalendar 1.0

Microsoft® Exchange ActiveSync® protocol version 2.5

Microsoft® Exchange ActiveSync® protocol version 12

Google Sync™

Related information:

www.sonyericsson.com/developer

Web browser

Browser version	Android 2.3 Browser (Based on WebKit)
Navigation/rendering	Adobe™ Flash™ 10.3* Full page PC rendering Landscape/portrait rendering Pan & Zoom
Search	Internet Search
Browser compliancy	CSS 2.0 CSS 2.1 CSS 3.0 DOM 2.0 DOM 3.0 HTML version. 4.0 HTML version. 5.0 JavaScript 1.7/ECMA-script 262 3rd edition WebGL 1.0 XHTML Basic version 1.0 XHTML 1.1
Supported Device API	Geo-location API
Protocol compliancy	Gzip HTTP/1.1 OMA Download 1.0 TLS 1.0 and SSL 3.0

^{*} Updates are distributed via Android market™.

Related information:

www.sonyericsson.com/developer

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