

Device Details

Nokia 5230



Built on: **S60 5th Edition**

Develop for this Platform

Use this device to test your apps

Announced Date
25 August 2009

Device Description:
The Nokia 5230 is a S60 5th Edition device with a resistive touch screen and tactile feedback. The device has a 3.2", bright nHD (640 x 360 pixels and 16:9 aspect ratio) display with homescreen featuring Contacts Bar and media bar. Input methods include full screen QWERTY, alphanumeric keypad and handwriting recognition. Other features include a 2 megapixel camera, Bluetooth 2.0 +EDR, flash Lite 3.0 and MIDP Java 2.1 APIs. Supported WCDMA frequencies depend on the region where the device is available.

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Technical Specs

Developer Platform	S60 5th Edition
Operating System	Symbian OS v9.4
Screen Resolution	360 x 640

General

Screen Resolution	360 x 640
Screen Color Depth	24 bit
Device Size	111 x 51.7 x 14.5 ^[1] mm
Volume	78 ^[2] cc
Weight	113 ^[3] g
Input Method	Touch Screen
Other Keys	Applications Key Call Creation Key Call Termination Key Camera Key Keypad Lock Key Volume Keys
Frequency Bands	GSM 1800 GSM 1900 GSM 850 GSM 900 WCDMA 1900 WCDMA 2100 WCDMA 850 WCDMA 900
Data Bearers	CSD Dual Transfer Mode (MSC 11) EDGE Class B GPRS HSCSD HSDPA WCDMA
Regional Availability	BRAZIL, CHINA, Eurasia, Europe, INDIA, Latin America, Middle East, North Africa, SEAP
CPU Count	Single CPU
CPU Type	ARM 11

CPU Clock Rate	434 MHz
UAPProfile Link	Profile 1 Profile 2
Example User Agent header	Mozilla/5.0 (SymbianOS/9.4; U; Series60/5.0 Nokia5230/10.0.067; Profile/MIDP-2.1 Configuration/CLDC-1.1) AppleWebKit/413 (KHTML, like Gecko) Safari/413
Consumer Link	Device Home Page
Developer Page Link	Developer Home Page
Remote Device Access Service	Link to the Service
Notes	¹ 14.5mm without stylus, 15.5mm with stylus. ² 78cc without stylus, 83cc with stylus. ³ 113g without stylus, 115g with stylus.

Extra Features

Extra Features	Accelerometer Sensor Flight Mode FOTA Firmware over the Air Nokia Music Store Ovi Share Ovi Store PictBridge Proximity Sensor Software Updates Stereo FM Radio Stereo Handsfree Speakers Still Image Editor Themes
GPS Features	A-GPS

APIs

Java Runtime	Java Runtime 1.4 for S60
Java Technology	JSR 139 Connected, Limited Device Configuration (CLDC) 1.1 JSR 118 MIDP 2.1 JSR 248 Mobile Service Architecture Subset for CLDC JSR 75 FileConnection and PIM API JSR 82 Java™ APIs for Bluetooth 1.1 JSR 135 Mobile Media API 1.1 JSR 172 J2ME™ Web Services Specification (RPC package) JSR 172 J2ME™ Web Services Specification (XML Parser package) JSR 177 Security and Trust Services API for J2ME™ (SATSA-CRYPTO package) JSR 177 Security and Trust Services API for J2ME™ (SATSA-PKI package) JSR 179 Location API for J2ME™ 1.0 JSR 184 Mobile 3D Graphics API for J2ME™ 1.1 JSR 205 Wireless Messaging API 2.0 JSR 226 Scalable 2D Vector Graphics API for J2ME™ 1.1 JSR 234 Advanced Multimedia Supplements 1.1 (audio3d) JSR 234 Advanced Multimedia Supplements 1.1 (music) JSR 256 Mobile Sensor

	API
	IAP Info API
	eSWT UI API 1.0.3
	Nokia UI API 1.2
Java API Access Permissions	Java API Access Permissions
Other APIs	Open C APIs Open C++ APIs
Product ID	RM-588: 0x20023763 RM-594: 0x20023764 RM-629: 0x20024105
Sensor API Channels	Accelerometer Double Tap Accelerometer XYZ Ambient Light Orientation Proximity Monitor Rotation
Certificates	Symbian A, Symbian B, Symbian C, Symbian D, UTI Root

Browser, Flash and Web Runtime

Browser Details	HTML over TCP/IP OSS Browser WAP 2.0 XHTML over TCP/IP
Flash Technology	Flash Lite 3.0
Flash Lite Features	Flash Video
Web Runtime	Web Runtime 1.1

Multimedia

Multimedia Codecs in Detail	Codec
Camera Resolution	1600 x 1200
CMOS Sensor	2.0 Megapixel
Camera Digital Zoom	3 x
Camera Focal length	3.7 mm
Camera F-Stop/Aperture	f/2.4
Camera Focus range	60 cm to infinity
Camera Image Formats	JPEG/Exif
Camera Features	Auto Exposure, Exposure Compensation, Full Screen Viewfinder, Self Timer, Sequence Mode
Video Recording Resolution	640 x 480
Video Recording Frame Rate	30 fps
Video Digital Zoom	4 x
Video Recording Formats	3GPP, MPEG-4
Video Features	Video Editor Video Player Video Recorder Video Ringtones Video Sharing Video Stabilization Video Streaming
Video Playback Formats	3GPP formats (H.263), Flash Video, H.264/AVC, MPEG-4, RealVideo 7,8
Video Playback Frame Rate	30 fps
Graphic Formats	BMP, EXIF, GIF87a, GIF89a, JPEG, JPEG 2000, MBM, OTA, PNG, TIFF, WBMP, WMF
Audio Features	Audio Equalizer Audio Recording AAC Audio Streaming Bass Boost Bluetooth Stereo Loudness Music Player

Audio Formats	Stereo Widening AAC, AAC+, AMR-NB, AMR-WB, AU, AWB, eAAC+, M4A, MIDI Tones (poly 64), Mobile XMF, MP3, MP4, RealAudio 7, 8, RMF, SND, SP-MIDI, True tones, WAV, WMA, WVE
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Memory Functions

Maximum User Storage	70 MB
NAND Memory	256 MB ^[1]
SDRAM Memory	128 MB
Memory Card type	Micro SD
Memory Card Features	Hot Swap
Maximum Memory Card Size	16 GB
Maximum Heap Size	Unlimited
Maximum JAR Size	Unlimited
Notes	¹ 512 MB for RM-594 (LTA variant) & RM-629 (Brazil variant)

Connectivity

Local Connectivity	Bluetooth 2.0 +EDR Bluetooth Stereo Audio Micro USB MTP (Multimedia Transfer Protocol) Nokia AV 3.5mm USB 2.0 High-Speed USB Mass Storage
Bluetooth Profiles	A2DP, AVRCP, BIP, DIP, DUN, FTP, GAVDP, HFP, HID, HSP, OPP, PBAP, SAP

Messaging

Messaging	IM, MMS+SMIL, SMS
Messaging Features	OMA Multimedia Messaging Service v1.3
Email Solutions	Mail for Exchange Native Email Client OMA E-mail Notification v1.0 Ovi Mail
Supported Email Protocols	IMAP4, POP3, SMTP
Supported Document Formats	Excel, PDF, Powerpoint, Word, Zip

Power Management

Power Management	2.0mm Charger Connector
Battery model	BL-5J 3.7V 1320mAh
GSM Talk Time up to	7.0 hours
WCDMA Talk Time up to	4.3 hours
GSM Standby Time up to	18 days
WCDMA Standby Time up to	19 days
Video Playback Time up to	4.6 hours
Video Call Time up to	3.0 hours
Music Playback Time up to	33.0 hours

Other

OMA Device Management	OMA Client Provisioning v1.1 OMA Device Management v1.1.2
Synchronization	OMA Data Synchronization v1.2 SyncML
Digital Rights Management	OMA DRM Forward Lock OMA DRM v1.0 OMA DRM v2.0 OMA DRM v2.1 Windows Media DRM 10
DRM Delivery Method	HTTP Download MMS OMA Download v1.0

Tools

The main Tools & SDKs page www.forum.nokia.com/tools provides all the tools & SDKs in an easy to access form. The page also includes Getting Started -articles giving an overview of the tools and SDKs.

Carbide.ui

Carbide.ui is a family of tools that enables the creation of themes for Symbian and Series 40 devices. Carbide.ui provides professionals and hobbyists alike with an easy to use tool that can customise almost every aspect of the look and feel of a device UI.

Carbide.c++

The latest version of Carbide.c++ is now available for download from Forum Nokia. This version offers performance improvements and new tools to all Symbian C++, Open C/C++, and Qt developers.

Recommended SDK(s)

S60 5th Edition SDK for Symbian OS

The S60 5th Edition SDK for Symbian OS enables the creation of applications using Qt (with the Qt Libraries for Symbian), Symbian C++, Open C/C++ (with Open C/C++ plug-in), Java™ technology, web technologies, and Python (with the PyS60 plug-in). The SDK includes support for the development of touch based application. The SDK includes the all key resources needed for application development (documentation, API reference, examples, and an emulator), excluding an IDE.

S60 Platform and Device SDKs for Symbian OS

The all-in-one S60 SDKs enable application development for all devices built on S60 3rd Edition, Feature Pack 2 or S60 5th Edition. The SDKs support coding using Qt (with the Qt Libraries for Symbian), Symbian C++ , Open C/C++ (with Open C/C++ plug-in), Java™ technology, web technologies, and Python (using the PyS60 SDK plug-in). The SDK includes all the key resources needed for application development, such as documentation, API reference, examples, and an emulator. An IDE is not included.

Specifications are subject to change without notice.