



Nokia Asha 309



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Technical Specs **\$99 (list)** **\$102 (list)** **\$115 (list in India)**

Developer Platform	Series 40 Developer Platform 2.0	Series 40 Developer Platform 2.0	Series 40 Developer Platform 2.0
Operating System	Nokia OS	Nokia OS	Nokia OS
Screen Resolution	240 x 400 pixels	240 x 400 pixels	240 x 400 pixels

General

Development Frameworks	Java Series 40 Web Apps	Java Series 40 Web Apps	Java Series 40 Web Apps
Screen Resolution	240 x 400 pixels	240 x 400 pixels	240 x 400 pixels
Screen Color Depth	16 bits	16 bits	16 bits
Screen Size	3 inches	3 inches	3 inches
Display Technology	LCD transmissive	LCD transmissive	Corning® Gorilla® Glass LCD transmissive
Device Size	109.9 x 54 x 13 mm	109.9 x 54 x 13 mm	106 x 52 x 12.9 mm
Volume	67 cc	67 cc	64 cc
Weight	101.7 g	101.6 g	95 g
Display Touch Technology	Capacitive Multipoint-Touch	Capacitive Multipoint-Touch	Capacitive Multipoint-Touch
Input Method	Touch Screen	Touch Screen	Touch Screen
Other Keys	Call Creation Key Call Termination Key Lock Switch Volume Keys	Call Creation Key Call Termination Key Lock Switch Volume Keys	Call Creation Key Call Termination Key ^[1] Lock Switch Volume Keys
Frequency Bands	GSM 1800 GSM 900	GSM 1800 GSM 900	GSM 1800 GSM 1900 GSM 850 GSM 900 WCDMA Band I (2100) WCDMA Band II (1900) WCDMA Band IV (1700/2100)

			WCDMA Band V (850) WCDMA Band VIII (900)
Data Bearers	EGPRS GPRS WLAN IEEE 802.11 b/g/n	EGPRS GPRS WLAN IEEE 802.11 b/g/n	EGPRS GPRS HSDPA Cat10 14.4 Mbps HSUPA Cat6 5.76 Mbps WLAN IEEE 802.11 b/g/n
Regional Availability	Global	Global	Global
CPU Clock Rate	-	-	1.0 GHz
Consumer Link	Device Home Page	Device Home Page	Device Home Page
Developer Page Link	Developer Home Page	Developer Home Page	Developer Home Page
Notes	-	-	¹ Combined Call Termination and Power key.

Extra Features

Extra Features	Accelerometer Sensor Flight Mode FOTA Firmware over the Air Nokia Life Nokia Maps 2.0 Nokia Store Themes	Accelerometer Sensor Dual SIM Flight Mode FOTA Firmware over the Air Nokia Life Nokia Maps 2.0 Nokia Store Themes	Accelerometer Sensor Ambient Light Sensor Flight Mode FOTA Firmware over the Air Nokia Life Nokia Maps 2.0 Nokia Music Nokia Store Proximity Sensor Themes VoIP
Positioning	CellID	CellID	CellID WiFi positioning

APIs

Java Runtime	Java Runtime 2.0.0 for Series 40	Java Runtime 2.0.0 for Series 40	Java Runtime 2.0.0 for Series 40
Java Technology	JSR 139 Connected, Limited Device Configuration (CLDC) 1.1 JSR 118 MIDP 2.1 JSR 75 FileConnection and PIM API 1.0 JSR 82 Java™ APIs for Bluetooth 1.1 JSR 172 J2ME™ Web Services Specification 1.0 (RPC package) JSR 172 J2ME™ Web Services Specification 1.0 (XML Parser package) JSR 177 Security and Trust	JSR 139 Connected, Limited Device Configuration (CLDC) 1.1 JSR 118 MIDP 2.1 JSR 75 FileConnection and PIM API 1.0 JSR 82 Java™ APIs for Bluetooth 1.1 JSR 172 J2ME™ Web Services Specification 1.0 (RPC package) JSR 172 J2ME™ Web Services Specification 1.0 (XML Parser package) JSR 177 Security and Trust	JSR 139 Connected, Limited Device Configuration (CLDC) 1.1 JSR 118 MIDP 2.1 JSR 75 FileConnection and PIM API 1.0 JSR 82 Java™ APIs for Bluetooth 1.1 JSR 172 J2ME™ Web Services Specification 1.0 (RPC package) JSR 172 J2ME™ Web Services Specification 1.0 (XML Parser package) JSR 177 Security and Trust Services API for J2ME™ 1.0 (SATSA-APDU package)

	Services API for J2ME™ 1.0 (SATSA-APDU package) JSR 177 Security and Trust Services API for J2ME™ 1.0 (SATSA-CRYPTO 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 211 Content Handler API 1.0 JSR 226 Scalable 2D Vector Graphics API for J2ME™ 1.1 JSR 234 Advanced Multimedia Supplements 1.1 (music) In-App Purchase API 1.0 JSR 135 Mobile Media API 1.2 JSR 248 Mobile Service Architecture Subset 1.1 for CLDC 1.1 JSR 256 Mobile Sensor API 1.2 Nokia UI API 1.6	Services API for J2ME™ 1.0 (SATSA-APDU package) JSR 177 Security and Trust Services API for J2ME™ 1.0 (SATSA-CRYPTO 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 211 Content Handler API 1.0 JSR 226 Scalable 2D Vector Graphics API for J2ME™ 1.1 JSR 234 Advanced Multimedia Supplements 1.1 (music) In-App Purchase API 1.0 JSR 135 Mobile Media API 1.2 JSR 248 Mobile Service Architecture Subset 1.1 for CLDC 1.1 JSR 256 Mobile Sensor API 1.2 Nokia UI API 1.6	JSR 177 Security and Trust Services API for J2ME™ 1.0 (SATSA-CRYPTO 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 211 Content Handler API 1.0 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 (camera)^[1] JSR 234 Advanced Multimedia Supplements 1.1 (music) In-App Purchase API 1.0 JSR 135 Mobile Media API 1.2 JSR 248 Mobile Service Architecture Subset 1.1 for CLDC 1.1 JSR 256 Mobile Sensor API 1.2 Nokia UI API 1.6
Recommended Java SDK	Nokia SDK 2.0 for Java	Nokia SDK 2.0 for Java	Nokia SDK 2.0 for Java
Java API Access Permissions	Java API Access Permissions	Java API Access Permissions	Java API Access Permissions
Certificates	UTI Root	UTI Root	UTI Root
Notes	-	-	¹ Contains: CameraControl, SnapshotControl, FlashControl, FocusControl and ZoomControl

Browser, Flash and Web Technologies

UAProfile Link	Profile	Profile	Profile
Example User Agent Header	309/2.0(p)Profile/MIDP-2.1 Configuration/CLDC-1.1 Gecko/20100401 S40OviBrowser/2.0.2.68.13	310/2.0(p)Profile/MIDP-2.1 Configuration/CLDC-1.1 Gecko/20100401 S40OviBrowser/2.0.2.68.13	-
Browser Details	CSS 2.1 CSS Mobile Profile DOM Level 1 and 2 HTML 4.0 Javascript 1.8 Nokia Browser 2.0	CSS 2.1 CSS Mobile Profile DOM Level 1 and 2 HTML 4.0 Javascript 1.8 Nokia Browser 2.0	CSS 2.1 CSS Mobile Profile DOM Level 1 and 2 HTML 4.0 Javascript 1.8 Nokia Browser 2.0

Open Source Gecko Layout Engine	Open Source Gecko Layout Engine	Open Source Gecko Layout Engine
Proxy Browser with Compression Technology	Proxy Browser with Compression Technology	Proxy Browser with Compression Technology
WAP 2.0	WAP 2.0	WAP 2.0
XHTML 1.1	XHTML 1.1	XHTML 1.1
XHTML Basic	XHTML Basic	XHTML Basic
XHTML Mobile Profile	XHTML Mobile Profile	XHTML Mobile Profile
XML	XML	

Multimedia

Camera Resolution	1600 x 1200 pixels	1600 x 1200 pixels	2048 x 1536 pixels
CMOS Sensor	2.0 Megapixels	2.0 Megapixels	3.2 Megapixels
Camera Digital Zoom	4 x	4 x	4 x
Camera F-Stop/Aperture	f/2.8	f/2.8	f/2.8
Camera Focus range	60 cm to infinity	60 cm to infinity	30 cm to infinity
Camera Image Formats	JPEG/Exif	JPEG/Exif	JPEG
Camera Features	Auto and Manual White Balance, Auto Exposure, Full Screen Viewfinder, Self Timer, Still Image Editor	Auto and Manual White Balance, Auto Exposure, Full Screen Viewfinder, Self Timer, Still Image Editor	Auto and Manual White Balance, Auto Exposure, Exposure Compensation, Full Focus, Full Screen Viewfinder, Self Timer, Sequence Mode, Still Image Editor
Video Recording Resolution	176 x 144 pixels	176 x 144 pixels	640 x 480 pixels
Video Recording Frame Rate	13 fps	13 fps	25 fps
Video Digital Zoom	4 x	4 x	4 x
Video Recording Formats	H.263	H.263	H.263, MPEG-4
Video Features	Video Player Video Recorder Video Sharing Video Streaming	Video Player Video Recorder Video Sharing Video Streaming	Video Player Video Recorder Video Ringtones Video Sharing Video Streaming
Video Playback Formats	3GPP formats (H.263), ASF, AVI, H.264/AVC, MPEG-4, VC-1, WMV	3GPP formats (H.263), ASF, AVI, H.264/AVC, MPEG-4, VC-1, WMV	3GPP formats (H.263), ASF, AVI, H.264/AVC, MPEG-4, VC-1, WMV
Video Playback	15 fps	15 fps	30 fps

Frame Rate

Graphic Formats	BMP, DCF, EXIF, GIF87a, GIF89a, JPEG, PNG, WBMP	BMP, DCF, EXIF, GIF87a, GIF89a, JPEG, PNG, WBMP	BMP, DCF, EXIF, GIF87a, GIF89a, JPEG, PNG, WBMP
Theme Version	Series 40 Theme v3.0	Series 40 Theme v3.0	Series 40 Theme v3.0
Suggested Theme Template	Series 40 Full Touch	Series 40 Full Touch	Series 40 Full Touch
Audio Features	Audio Equalizer Audio Recorder AMR Handsfree Speaker Loudness MP3 Ringtones Music Player Stereo FM RDS Radio	Audio Equalizer Audio Recorder AMR Handsfree Speaker Loudness MP3 Ringtones Music Player Stereo FM RDS Radio	Audio Equalizer Audio Recorder AMR Audio Streaming Bluetooth Stereo Handsfree Speaker Internet Radio Loudness MP3 Ringtones Music Player Stereo FM RDS Radio
Audio Formats	3G2, A-LAW, AAC, AAC LC, AAC LTP, AAC+, AMR-NB, AMR-WB, HE-AAC v1, HE-AAC v2, LPCM, MIDI Tones (poly 64), Mobile XMF, MP3, MP4, MU-LAW, NRT, SP-MIDI, True tones, WAV, WMA 10, WMA 10 Pro, WMA 9, X-Tone	3G2, A-LAW, AAC, AAC LC, AAC LTP, AAC+, AMR-NB, AMR-WB, HE-AAC v1, HE-AAC v2, LPCM, MIDI Tones (poly 64), Mobile XMF, MP3, MP4, MU-LAW, NRT, SP-MIDI, True tones, WAV, WMA 10, WMA 10 Pro, WMA 9, X-Tone	3G2, A-LAW, AAC, AAC LC, AAC LTP, AAC+, AMR-NB, AMR-WB, AWB, HE-AAC v1, HE-AAC v2, LPCM, M4A, MIDI Tones (poly 64), Mobile XMF, MP3, MP4, MU-LAW, NRT, SP-MIDI, WAV, WMA 10, WMA 10 Pro, WMA 9, X-Tone
Speech Codecs	AMR-NB EFR GSM FR GSM HR	AMR-NB EFR GSM FR GSM HR	AMR-NB AMR-WB EFR GSM FR GSM HR
VoIP Codecs	-	-	G.711 G.726 G.729 iLBC

Memory Functions

Maximum User Storage	20 MB ^[1]	20 MB ^[1]	140 MB
ROM Memory	-	-	256 MB
RAM Memory	64 MB	64 MB	128 MB
ROM memory	128 MB	128 MB	-
Memory Card type	Micro SD	Micro SD	Micro SD

Maximum Memory Card Size	32 GB	32 GB	32 GB
Maximum Heap Size	2 MB	2 MB	4 MB
Maximum JAR Size	2 MB	2 MB	2 MB
Notes	¹ Additional 2GB memory card included.	¹ Additional 2GB memory card included.	-

Connectivity

Sharing Features	-	-	Bluetooth Email Facebook Flickr MMS Orkut Renren Twitter
Local Connectivity	Bluetooth 3.0 +A2DP Micro USB MTP (Multimedia Transfer Protocol) Nokia AV 3.5mm USB 2.0 High-Speed	Bluetooth 3.0 +A2DP Micro USB MTP (Multimedia Transfer Protocol) Nokia AV 3.5mm USB 2.0 High-Speed	Bluetooth 2.1 +EDR Micro USB MTP (Multimedia Transfer Protocol) Nokia AV 3.5mm USB 2.0 High-Speed
Bluetooth Profiles	DUN, FTP, GAP, GOEP, HFP, HSP, OPP, PAN, PBAP 1.0, SAP, SDAP, SPP 1.0	DUN, FTP, GAP, GOEP, HFP, HSP, OPP, PAN, PBAP 1.0, SAP, SDAP, SPP 1.0	DUN, FTP, GAP, GOEP, HFP, HSP, OPP, PAN, PBAP 1.0, SAP, SDAP, SDP, SPP 1.0
WLAN support	802.11b/g/n	802.11b/g/n	802.11b/g/n ^[1] WEP WPA WPA-Enterprise WPA-Personal WPA2 (AES/TKIP)
Notes	-	-	¹ 802.11n: 2.4GHz, MCS7, 20MHz bandwidth.

Messaging

Messaging	AMS, IM, MMS+SMIL, SMS	AMS, IM, MMS+SMIL, SMS	AMS, IM, MMS+SMIL, SMS
Messaging Features	OMA Instant Messaging and Presence Service v1.2.1 OMA Multimedia Messaging Service v1.3	OMA Instant Messaging and Presence Service v1.2.1 OMA Multimedia Messaging Service v1.3	OMA Instant Messaging and Presence Service v1.2.1 OMA Multimedia Messaging Service v1.3
Email Solutions	Gmail: IMAP/SMTP Hotmail: MSP Nokia Email Nokia Mail: IMAP/SMTP	Gmail: IMAP/SMTP Hotmail: MSP Nokia Mail: IMAP/SMTP Yahoo: IMAP/SMTP	Nokia Email Nokia Messaging 3.1 OMA E-mail Notification v1.0

Nokia Messaging
Yahoo: IMAP/SMTP

Supported
 Email Protocols

IMAP4, POP3, SMTP

IMAP4, POP3, SMTP

IMAP4, IMAPS, POP3, SMTP

Power Management

Power Management	2.0mm Charger Connector USB Charging	2.0mm Charger Connector USB Charging	2.0mm Charger Connector USB Charging
Battery model	BL-4U 3.7V 1110 mAh	BL-4U 3.7V 1110 mAh	BL-4U 3.7V 1110 mAh
GSM Talk Time up to	9.0 hours	17.0 hours	14.0 hours
WCDMA Talk Time up to	-	-	6.0 hours
GSM Standby Time up to	956.0 hours	600.0 hours	696.0 hours
WCDMA Standby Time up to	-	-	744.0 hours
Video Playback Time up to	9.5 hours	9.5 hours	-
Video Recording Time up to	6.0 hours	6.0 hours	-
Music Playback Time up to	40.0 hours	54.0 hours	40.0 hours

Other

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