



Nokia N93

Technical Specifications

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General

Operating Frequency

- Dual mode WCDMA/GSM and triband GSM coverage on up to five continents (EDGE/GSM 900/1800/1900 + WCDMA 2100 MHz networks)
- Automatic switching between bands and modes

Dimensions

- Volume: 133 cc
- Weight: 180 g
- Length: 118.2 mm
- Width: 55.5 mm
- Thickness: 28.2 mm

Memory Functions

- Up to 50 MB internal dynamic memory for messages, ringing tones, images, video clips, calendar notes, to-do list and applications
- Expandable memory: 128 MB miniSD card*
- Memory card slot supporting up to 2 GB miniSD memory cards

*Please note that the memory capacity of the miniSD in the sales package may vary depending on the market and/or your network operator/service provider.

Power Management

- Battery: Lithium Polymer battery BP-6M 1100mAh
 - Talk time: up to 3.7hrs (WCDMA)/up to 5.1hrs (GSM)*
 - Stand-by time: up to 10days (WCDMA)/up to 10days (GSM)*
- * Operation times may vary depending on radio access technology used, operator network configuration and usage.

Form and Function

- Twist and Shoot form factor with 4 modes: Imaging mode for capture, View mode for reliving memories, Fold open mode for talking and Fold closed mode for carrying.
- Dedicated keys for camera control
- Support of applications in both portrait and landscape orientations

Displays

- Active matrix, 2.4" QVGA color display with wide 160° viewing angle: 320 x 240 pixels, up to 262,144 colors
- Automatic brightness control for main display
- 1.1" second display: 128 x 36, up to 65,536 colours

User Interface

- User Interface: S60 3rd Edition
- 5-way scroll key, selection keys, menu key, edit and clear keys, call and end keys
- Multimedia key for quick access to your favorite content
- Additional selection keys for landscape mode
- Side 5-way scroll key, camera mode key and flash key
- Dedicated keys for capture and zoom
- Active standby screen

Call Management

- Contacts: advanced contacts database with support for multiple phone and e-mail details per entry, also supports thumbnail pictures and groups
- Speed dialing
- Logs: keeps lists of your dialed, received, and missed calls
- Automatic redial
- Automatic answer (works with compatible headset or car kit only)
- Supports fixed dialing number, which allows calls only to predefined numbers
- Conference call
- Push to talk (PoC)

Voice Features

- Speaker independent name dialing (SIND)
- Voice commands
- Voice recorder
- Talking ringtone
- Integrated hands-free speaker

Messaging

- Text messaging: supports concatenated SMS, picture messaging, SMS distribution list
- Multimedia messaging: combine image, video, text, and audio clip and send as MMS to a compatible phone or PC; use MMS to tell your story with a multi-slide presentation
- Automatic resizing of your megapixel images to fit MMS (max. 300 KB attachment size depending on the network)
- Predictive text input: support for all major languages in Europe and Asia-Pacific

Data Transfer*

- WCDMA 2100 with simultaneous voice and packet data (PS max speed UL/DL= 384/384kbps, CS max speed 64kbps)
- Dual Transfer Mode (DTM) support for simultaneous voice and packet data connection in GSM/EDGE networks: Simple class A, multi slot class 11, max speed DL/UL= 177.6/118.4 kbit/s
- EDGE class B, multi slot class 32, max speed DL/UL= 296 / 177.6 kbit/s

*Actual achieved speeds may vary depending on network support.

Connectivity

- Integrated wireless LAN (802.11 b/g) and UHP (Universal Plug and Play)
- Integrated Bluetooth wireless technology v2.0
- USB 2.0 via Pop-Port™ interface and mass storage class support to support drag and drop functionality
- TV out support (PAL/NTSC)
- Nokia PC Suite connectivity with USB, Infrared and Bluetooth wireless technology
- Local synchronization of contacts and calendar to a compatible PC using compatible connection
- Remote over-the-air synchronization
- Send and receive images, video clips, graphics, and business cards via Bluetooth wireless technology

Java Applications

- Java MIDP 2.0, CLDC 1.1 (Connected Limited Device Configuration (J2ME))
- Over-the-air download of Java-based applications and games

Other Applications

- Personal Information Management (PIM)
- Advanced S60 PIM features including calendar, contacts, to-do list, and PIM printing
- Settings Wizard for easy configuration of e-mail, push to talk and video sharing
- Data transfer application for transfer of PIM information from other compatible Nokia devices.

Digital Services

- Java and Symbian applications available from Nokia Software Market

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See New - Mobile Photography and Video

Imaging and Video

- 3.2 megapixel (2048 x 1536 pixels) camera, Carl Zeiss Vario-Tessar lens, 3x optical zoom, MPEG-4 VGA video capture of up to 30 fps
- Direct connection to compatible TV via Nokia Video Connectivity Cable (CA-64U, included in box) or wireless LAN/UPnP
- Sub camera, CIF (352 x 288) sensor
- Video call and video sharing support (WCDMA network services)
- Integrated flash (operating range up to 1.5m)
- Digital stereo microphone
- Flash modes: on, off, automatic
- Rotating gallery
- Online album/blog: photo/video uploading from gallery

- Lifeblog support
- Video and still image editors
- Movie director for automated video production

Mobile Video

- Video resolutions: up to VGA (640x480) at 30 fps
- Audio recording: AAC stereo, 48kHz
- Digital video stabilization
- Video clip length: max. 60 min per clip
- Video file format: .mp4 (default), .3gp (for MMS)
- White balance: automatic, sunny, cloudy, incandescent, fluorescent
- Scene: automatic, night
- Colour tones: normal, sepia, black & white, negative
- Zoom: (optical / digital) 3x / up to 8x

Mobile Photography

- Image resolution: up to 3.2 megapixel (2048 x 1536 pixels)
- Still image file format: JPEG/EXIF
- Auto focus
- Auto exposure - center weighted
- Exposure compensation: +1 - -1EV at 0.5 step
- White balance: automatic, sunny, cloudy, incandescent, fluorescent
- Scene: automatic, user, close-up, landscape, night, night portrait
- Colour tone: normal, sepia, black & white, negative
- Zoom (optical/digital) 3x / up to 20x

Camera Specifications

- Sensor: CMOS, 3.2 megapixel (2048x1536)
- Carl Zeiss Optics: Vario-Tessar lens
- Focal length 4.5 mm (Wide) / 12.4 mm (Tele) 34.25 - 94.1 mm (35mm equiv.)
- Focus range 10 cm ~ infinity
- Macro focus distance 30 cm (macro @ Wide) 10 cm (macro @ Middle to Tele)
- Shutter speed: Mechanical shutter: 1/2400 ~ 1/3 s

Nokia XpressPrint solution

- Print digital photos directly from the device to compatible printers:
- Transfer photos directly to compatible printer or kiosk via Bluetooth wireless technology, memory card, wireless LAN (UPnP) or directly to PictBridge-compliant printer via USB cable.
- Built-in application is quick and easy to use, no installation, no fuss
- Order prints online
- Find out more about **Nokia XpressPrint**

Nokia XpressShare solution

- Easy sharing of captured photos and videos directly from the gallery or straight after capture
- via e-mail or Bluetooth wireless technology while retaining full image quality or via MMS with automatic resizing of 3.2 megapixel images to fit MMS
- Two-way video call capability
- Video sharing for one-way live video or video clip sharing within the voice call
- Find out more about **Nokia XpressShare**

Nokia XpressTransfer solution

- Transfer and organise photos and videos between your device and compatible PC
- Connect to compatible PC and images are automatically transferred with Nokia Image Store feature in Nokia PC Suite, photo albums created on the device are saved in similar albums on the PC
- Organise and edit photos and videos on PC with Adobe Photoshop Album Starter Edition
- Deletion or resizing of the images and videos transferred from the device. Resizing means you can carry a large collection of photos and videos on your device and full quality versions are stored on the PC
- Gallery view of photos and videos transferred to PC
- Find out more at www.nokia.com/xpresstransfer

Software

- Adobe Premiere Elements 2.0 software gives you the power to edit great movies on your compatible PC and create a DVD to relive special moments again and again (requires Windows XP operating system)
- Find out more about Adobe Premiere Elements 2.0 ([link](#))

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Hear New - Mobile Music

Music Features

- Digital music player - supports MP3/AAC/AAC+/eAAC+/WMA with playlists and equalizer.
- One click CD ripping, converting and transferring music to your device using Nokia Music Manager
- Share playlists with your friends over Bluetooth wireless technology, MMS, or e-mail
- Integrated handsfree speaker
- Synchronize PC music library with Windows Media Player
- OMA DRM 2.0 support for music
- Stereo FM radio (87.5-108MHz /76-90MHz) with Visual Radio support

*Stereo sound can only be heard with a compatible stereo headset.

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Do New - Mobile Computing and Connectivity

E-mail

- Easy-to-use e-mail client with attachment support for images, videos, music and documents
- Compatible with Nokia Wireless Keyboard (sold separately)

Browsing

- Nokia Web Browser with Mini map
- Web feeds support (RSS)

Digital home

- Play video, music and photos on home media network - compatible TV, stereo and PC over WLAN/UPnP

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Watch New - Media to-go

RealPlayer media player

- Full-screen video playback to view downloaded, streamed or recorded video clips
- Supported video formats : MPEG-4 , H.264/AVC , H.263/3GPP, RealVideo 8/9/10

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Package Contents

Sales Package Contents

- Nokia N93
- 128 MB miniSD card MU-17*
- Nokia Battery BP-9M
- Nokia Stereo Headset HS-23
- Nokia Travel Charger AC-4
- Nokia Charger Adapter CA-44
- Nokia Connectivity Cable CA-53
- Nokia Video Connectivity Cable CA-64U
- Protective Pouch CP-83
- Wrist Strap CP-84
- DVD-ROM with PC software - (containing Nokia PC Suite, Lifeblog, Adobe Photoshop Album Starter Edition, Adobe Premiere Elements 2.0, Home Media Server software)
- User guide, Quick Start guide, Get Connected guide and Add-on Application guide

* Please note different miniSD configurations may be available depending on country or operator configuration

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