

Nokia Customer Care RH-51/RH-52 Series Cellular Phones

1 - General Information



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Product selection

The RH-51/52 (Nokia 7610) is a triple band transceiver unit. RH-51 is designed for the GSM900/1800/1900 networks and RH-52 is designed for the GSM850/1800/1900 networks.

Figure 1: RH-51/RH-52 phone



Product key features

Display and keypad

- Large high resolution TFT color display (176x208 pixels) with 65,536 colors.
- 5-way navigation key, 2 selection keys, menu key, edit key and clear key.
- State-of-the-art ribless numeric keymat, ITU layout.

Hardware features

- Tri-band GSM E900/1800/1900 or GSM 850/1800/1900
- Internal antenna
- Speech codecs: HR, FR, EFR, AMR
- GPRS: Multislot Class 6, 1+1, 2+2, 2+1, 3+1, class B. Max DL=40.3kbps
UL=26.8kbps
- Integrated 1 mega pixel (1152 x 864 pixels) camera with high quality lens
- 8 MByte internal user memory
- Memory card slot for additional user memory (1.8V/3V reduced size MMC)
- Bluetooth and USB through PopPort™ connector
- Internal vibrator
- Integrated handsfree speaker
- Plug-in SIM (1.8 and 3.0 V)
- Real time clock

Software features

- Symbian OS 7.0s platform
- Nokia series 60 UI : C++ and Java SDKs

UI features

Imaging

- Capture
 - Camera with 2 modes (Standard/Night) and x4 Digital Zoom
 - Video recorder supporting QCIF(176x144) and subQCIF(128x96) sizes
- Share
 - Sending via Bluetooth, USB, MMS, e-mail
 - Media Player
- Organize
 - Media Gallery
 - Uploader
- Editing
 - Movie Director (semi-automatic video editing)

Messaging

- Multimedia messaging with presentations
- Concatenated SMS (MO/MT)
- Picture messaging
- E-mail (SMTP, IMAP4, POP3)
- Instant messaging (Wireless Village)
- T9 predictive text input

PIM

- Contacts with thumbnail images
- Presence enhanced contact
- Calendar
- To-do list
- Notes
- Voice recorder
- Calculator
- Clock
- Converter

Synchronization

- Local (using PC Suite)
 - Data: Calendar, Contacts
 - PC applications: Microsoft Outlook (97, 98, 2000, 2002), Outlook Express, Lotus Organizer (5.0, 6.0), Lotus Notes 5.0/5.02/6.0
- Remote (with SyncML server)
 - Data: Calendar, Contacts

Phone

- GSM phase 2+ features
- Voice dialling
- Voice commands
- CPHS spec. (version 4.2)

Games

- None

Java

- MIDP2.0 with
 - Mobile media API (JSR 135)
 - Bluetooth API (JSR 82)
 - Wireless messaging API (JSR 120)

Browser

- WAP 2.0 xHTML browser

Personalization

- Themes
- SP-MIDI, True Tones

Location Based Services

- Cell broadcast

M-Commerce

- Mobile Wallet 2.0

RH-51/52 product and modules

Name	Type code	Material code /module type	Module code
Basic transceiver Eur/APAC	RH-51	0511637	
Basic transceiver China	RH-51	0514630	
Basic transceiver US	RH-52	0511638	
Engine module	RH-51	0202215	1BZ
Engine module	RH-52	0202216	1BZ
Mechanical module	RH-51	0263163	
Mechanical module	RH-52	0263164	
SW module (basic SW)	RH-51/52	0244942	On Flash memory

Accessories list

Power	Product code:
Travel Charger (ACP-12) (in box)	
Travel Charger (AC-1) (in box)	
Battery (BL-5C)	0273558
Car	Product code:
Wireless Car Kit (CK-1W)	0080774
Car Installation Kit (CK-7)	
Mobile Charger (LCH-12)	0675328
Audio	Product code:
Headsets (HS-5)	0694059 (English) / 06904072 (Chinese)
Retractable Headsets (HS-10)	0694126 (EMEA) / 0694125 (APAC)
Boom Headsets (HDB-4)	0694094
Wireless Headsets (HDW-2)	0274141
Wireless Clip-on Headsets (HS-3W)	0694135
Wireless Boom Headsets (HS-4W)	
Data	Product code:
Connectivity Cable (DKU-2)	0730238
Memory Unit (64MB) (in-box)	RS-MMC

Cover	Product code:
Xpress-on Style Pack	
Imaging	Product code:
Nokia Image Viewer (SU-5)	
Image Album (RX-15)	
Nokia Observation Camera	
Messaging	Product code:
Nokia Digital Pen (SU-1B)	0710000
Carrying	Product code:
Wrist Strap (in-box)	
Soft Pouch (in-box for US/China))	

Technical specifications

General specification of transceiver RH-51/RH-52

Unit	Dimension (mm)	Weight (g)	Volume (cc)
Transceiver with BL-5C 900mAh Li-Ion battery pack	108x53x18.70	117	93.53

Parameter	Unit
Cellular system	GSM850 or GSM900/EGSM900, GSM1800 and GSM1900
RX frequency band	GSM850: 869 – 893MHz EGSM: 925 – 935MHz GSM900: 935 – 960MHz GSM1800: 1805 – 1880MHz GSM1900: 1930 – 1990MHz
TX frequency band	GSM850: 824.2 – 893MHz EGSM: 880 – 890MHz GSM900: 890 – 915MHz GSM1800: 1710 – 1785MHz GSM1900: 1850 – 1910Mz
Output Power	GSM900: +5 ... +33dBm/3.2mW ... 2W GSM1800: +0 ... +30dBm/1.0mW ... 1W GSM1900: +0 ... +30dBm/1.0mW ... 1W
Number of RF channels	GSM900: 125 GSM1800: 375 GSM1900: 300
Channel pacing	200KHz
Number of TX power levels	GSM900: 15 GSM1800: 16 GSM1900: 16

Battery endurance

Nokia measurements of the operation times in GSM900/1800

Talk time	
Battery: BL-5C(900mAh), single slot call	Up to 3.1 – 3.5 hours
Standby time	
Battery: BL-5C(900mAh), single slot call	Up to 319 – 323 hours

Nokia measurements of the operation times in GSM1900

Talk time	
Battery: BL-5C(900mAh), single slot call	Up to 3.6 hours
Standby time	
Battery: BL-5C(900mAh), single slot call	Up to 321 hours

Environmental conditions

Environmental condition	Ambient temperature	Notes
Normal operation	-15 °C ... +55 °C	Specifications fulfilled
Reduced performance	+55 °C ... +70 °C	Operational only for short periods
Intermittent operation	-40 °C ... -15 °C and +70 °C ... +85° C	Operation not guaranteed but an attempt to operate will not damage the phone
No operation	-40 °C ... -15 °C	Operation not guaranteed but an attempt to operate will not damage the phone
No operation or storage	<-40 °C and >+85 °C	No storage: An attempt may cause permanent damage
Charging allowed	-15 °C ... +55 °C	
Long term storage conditions	0 °C ... +85 °C	