

# Nokia Customer Care RH-51/52, RH-67/68 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



The RH-67/68 (Nokia 6670) is a triple band transceiver unit, a facelift variant of RH-51/52. RH-67 is designed for the GSM900/1800/1900 networks and RH-68 is designed for the GSM850/1800/1900 networks.

Figure 2: RH-67/RH-68 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 (PR1a) 0518997 (PR1b) 0519266 (PR1c) 0520496 (PR2)	
Basic transceiver China	RH-51	0514630 (PR1a) 0518998 (PR1b) 0519267 (PR1c) 0520495 (PR2)	
Basic transceiver US	RH-52	0511638 (PR1c) 0520497 (PR2)	
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) English	RH-51/52	0244942 (PR1a: 4.0421.4) 8465033 (PR1b: 4.0424.4) 8465629 (PR1c: 4.0427.0) 8467855 (PR2: 4.0437.4)	On Flash memory
SW Module (basic SW) Chinese	RH-51	0244943 (PR1a: 4.0421.4ch) 8465035 (PR1b: 4.0424.4ch) 8465631 (PR1c: 4.0427.0ch) 8467857 (PR2: 4.0437.4ch)	On Flash memory

## RH-67/68 product and modules

Name	Type code	Material code / module type	Module code
Basic transceiver Eur/APAC	RH-67	0518814	
Basic transceiver China	RH-67	0518815	
Basic transceiver US	RH-68	0511638	
Engine Module	RH-67	0202218	1BZ
Engine Module	RH-68	0202219	1BZ
Mechanical Module	RH-67	0263669	
Mechanical Module	RH-68	0263670	
SW Module (basic SW) English	RH-67/68	8467855 (4.0437.4)	On Flash memory
SW Module (basic SW) Chinese	RH-67	8467857 (4.0437.4)	On Flash memory

## Accessories list (RH-51/52, RH-67/68)

<b>Power</b>	<b>Note:</b>
Travel Charger (ACP-12)	In box
Travel Charger (AC-1)	
Battery (BL-5C)	
<b>Car</b>	<b>Note:</b>
Wireless Car Kit (CK-1W)	
Advanced Car Kit (CK-7W)	
Wireless Car Kit (CARK-112)	
Mobile Charger (LCH-12)	
<b>Audio</b>	<b>Note:</b>
Headsets (HS-5)	In-box
Retractable Headsets (HS-10)	
Boom Headsets (HDB-4)	
Headsets (HDD-1)	
Headsets (HDB-5)	
Wireless Headsets (HDW-2)	
Wireless Headsets (HDW-3)	
Wireless Clip-on Headsets (HS-3W)	
Wireless Boom Headsets (HS-4W)	
Wireless Head set (HS-11W)	
<b>Data</b>	<b>Note:</b>
Connectivity Cable (DKU-2)	
64MB MultiMediaCard (MMC)	RS-MMC, In box
Phone adapter (HAD-10)	US only.
<b>Imaging</b>	<b>Note:</b>
Nokia Image Viewer (SU-5)	
Add-on Flash (PD-2)	
Image Album (PD-1)	
Observation Camera (PT-2)	
Remote Camera (PT-6)	

<b>Messaging</b>	<b>Note:</b>
Nokia Digital Pen (SU-1B)	

## Accessories list (RH-51/52)

<b>Cover</b>	<b>Note:</b>
Xpress-on Style Pack	
<b>Carrying</b>	<b>Note:</b>
Wrist Strap	In box
Fashion Carrying Case	
Leather Case	

## Technical specifications

### General specification of transceivers

Unit	Dimension (mm)	Weight (g)	Volume (cc)
RH-51/52 Transceiver with BL-5C 900mAh Li-lon battery pack	108.6x53.0x18.7	118.0	93.6
RH-67/68 Transceiver with BL-5C 900mAh Li-lon battery pack	108.6x53.0x20.3	120.8	98.5

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

Battery used: Standard battery BL-5C. ECTEL/TMS measurement standard.

### RH-51, RH-67

Band	Talk time	Standby time
GSM 900	182 min	323 hours
GSM 1800	214 min	319 hours
GSM 1900	220 min	321 hours

### RH-52, RH-68

Band	Talk time	Standby time
GSM 850	174 min	-
GSM 1800	237 min	309 hours
GSM 1900	226 min	314 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	

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