

HUAWEI GSM-R OPH R952 V100R001C00 Product Description

Issue 02

Date 2016-01-25

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About This Document

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Brief Introduction

This document describes the features, specifications, and functions of the HUAWEI R952 GSM-R OPH handset (R952 for short).

Change History

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1 Overview

1.1 Introduction

The R952 is a GSM-R OPH handset with the following features:

Mature platform, stable performance and quality, and low hardware cost

In addition to incorporating the advantages of mature products using the same hardware as the R952, the R952 software and hardware have been developed to comply with the GSM-R protocol stack and GSM-R communication service. By building on previous product development, the R952 has established itself as a mature product yet available to consumers at relatively low cost.

• A wide range of GSM-R functions

The R952 provides voice group call service (VGCS), voice broadcast service (VBS), late entry, emergency calls, enhanced Multi-Level Precedence and Preemption (eMLPP), and functional number services.

• PTT and emergency call keys

Dedicated PTT and emergency call keys facilitate rapid communications with individuals or groups.

2 Product Specifications

2.1 Physical Specifications

Table 2-1 lists the physical specifications of the R952.

Table 2-1 Physical specifications of the R952

Item		Specifications	
Form factor		Bar type(直板), 141.4*62.8*25.9mm	
Platform		HUAWEI kirin 620	
SIM		Single SIM	
Antenna		Built-in & reversed port to connect an external antenna	
Battery	3000 mAh Lithium-polyme r battery	Standby time: more than 600 hours (network dependent) Talk time: more than 15 hours (network dependent)	
Display	Resolution	240 x 320 pixels	
	LCD size	2.4 inches	
Port	Charger port	Micro-USB port	
	USB port	Micro-USB port	
	SD port	Micro SD port, can expand to max 32GB	
	Headset jack	Standard 3.5mm jack	
The side k	teys	PTT button, emergency button, volum (+/-) button, Reserved button	
GPS		Support	
Bluetooth		Bluetooth 4.0	
Sensor		G-sensor	
Camera		CMOS	

Item	Specifications
IP class	IP65

2.2 Main Features

Table 2-2 Main features

Feature	Description	
Working bands	Supports GSM900 and DCS1800 bands.	
Trunking service	 Supports VGCS and editing of group names. Supports VBS and editing of group names. Supports joining an ongoing group call (late entry). Supports eMLPP. Supports emergency calls. Supports emergency call acknowledgment. Supports PTT settings, including: PTT mode, group call status, broadcast status, and automatic answer Supports setting functional numbers. Supports calling number identification (CNID). Supports dialed number identification service (DNIS). 	
	Supports hands-free calling.Supports group call record management.	
Functional numbers	 Supports functional number registration, deregistration, and querying. Supports changing the current functional number used for call forwarding. Supports forced deregistration of functional numbers. Supports deregistration of functional numbers upon power-off. Supports the China Region numbering plan. 	
Camera	Supports night mode.Offers three image qualities: high, middle, and low.	
BT	Support transferring files by BT and video by BT.	
Folders	 Image folder: Stores downloaded images. Ringtone folder: Stores downloaded ringtone. Music folder: Stores downloaded music. Video folder: Stores downloaded video. 	

Feature	Description	
	Others: Store other files.	
Shortcut keys	 Provides four customizable navigation keys as shortcut keys for different functions. Supports an emergency number shortcut key. 	
	Supports a PTT call shortcut key.	
SMS	Supports text message sending and receiving and message template editing.	
	• Supports up to 1000 text messages in onboard phone storage including inbox, outbox, and draft messages.	
	• Supports setting a signature to append to text messages.	
	Supports voice mail.	
	Supports cell broadcast and configuration.	
Contacts	Supports up to 1000 contacts in onboard phone storage.	
	• Supports copying contacts between onboard phone storage and the SIM card.	
	Supports speed dialing.	
Profiles	Supports general, silent, meeting, outdoor, and headset modes	
Applications	Provides multiple applications, such as alarm, calendar, and calculator.	
Supplementary services	Supports other services, such as call prioritization, call blocking, call waiting, and call forwarding.	
SIM	Supports SIM application toolkit.	
Language	Support English	
Call display	Display the information of the call, including function entity, the contract information of remote.	
Status Display	One status bar on top of the phone to show the capacity of battery, network status and earphone mode, and so on.	
Status Tones	Play beep tones when release the group calls, or fail in occupying the uplink.	
Burn-in function	Support	
Network monitor	Display cell data and the properties of the GSM/GSM-R connection for its and neighbouring cell	

2.3 Environmental Specifications

Table 2-3 lists the environmental specifications of the R952.

Table 2-3 Environmental specifications of the R952

Item	Specifications
Operating temperature	−20°C to +55°C
Storage temperature	−40°C to +70°C
Transportation temperature	−40°C to +70°C
Humidity	0%–95% RH

2.4 Performance Specifications

Table 2-4 lists the performance specifications of the R952.

Table 2-4 Performance specifications of the R952

Item	Specifications	
Frequency bands	• GSM900:	
	Uplink: 876–915 MHz	
	Downlink: 921–960 MHz	
	• GSM1800:	
	Uplink: 1710-1785MHz	
	Downlink: 1805-1880MHz	
	• DATA:	
	GPRS/EDGE CLASS 12	

2.5 Product Certifications

The R952 is certified by:

- China Compulsory Certification (CCC)
- Radio Type Approval Certification (China)
- China Railways Production Certification (CRCC)

- Restriction of Hazardous Substances (RoHS)
- Conformité Européenne (CE)

2.6 Accessories

Table 2-5 lists the standard accessories of the R952.

Table 2-5 R952 accessories

No.	Item	Quantity
1	Travel charger	1
2	Battery	1
3	User Guide	1
4	Headset	1
5	USB cable	1

Table 2-6 lists the optional accessories of the R952.

Table 2-6 Optional accessories of the R952

No.	Item	Quantity
1	Backup battery	1
2	desktop charger for parallel charging of multiple batteries and devices	1
3	belt pouch	1
4	remote speaker microphone	1

A Acronyms and Abbreviations

CMOS complementary metal-oxide semiconductor

CNID Calling Number Identification

DCS distributed control system

DNIS Dialed Number Identification Service

GSM Global System for Mobile Communications

LCD liquid crystal display

PTT push-to-talk

QVGA Quarter VGA

SIM Subscriber Identity Module

VBS Voice Broadcast Service

VGA Video Graphics Array

VGCS Voice Group Call Service