LG

Life's Good

用户手册

LG TONE Style

蓝牙™无线立体声耳机

Rev 1.0 CN
使用产品前请先阅读使用说明，阅读后请保留备用。
因印刷错误或信息表述不准确，需要对本手册进行任何修
改或改动，只能由 LG Electronics Inc. 完成。

执行标准	信部无[2002] 353号 / ETSI EN 300 328
DATE	2019.08.12

生产商(制造商):LG Electronics Inc. 韩国首尔永登浦
区汝矣岛洞 128 号
*使用产品前请阅读使用说明
*保留备用

HBS-SL5   www.lg.com

目录

LG TONE Style(HBS-SL5) 是一款采用蓝牙技术的轻型无线耳机。

本产品可用作支持 A2DP 或免提蓝牙情景模式设备的音频附件。

安全注意事项
⚠ 提醒

切勿随意拆解、改变或维修本产品。
切勿将产品放在过热或易燃材料附近。
切勿随意更换电池，可能导致爆炸。
倘若使用不兼容的充电器，产品可能因此被损坏。
切勿让婴儿或儿童吞食磁铁或小的产品部件。
切勿让异物进入充电器连接器（充电端口和电源插头）。否则可能导致起火或触电。
切勿在产品充电时佩戴产品，确保您的安全。
如果您体内植入了医疗设备，请在使用本产品之前，咨询您的医生。

切勿太过用力拉出耳机线。
切勿取出产品中装入的电池，确保安全。
锂离子聚合物电池属于危险组件，可能会
导致人身伤害。
由非合格专业人员更换电池可能会损坏设备。

⚠ 警告

切勿将产品从高处摔下。
切勿让产品接触到水、酒精或苯。
切勿将产品放在潮湿或多尘的位置。
切勿在产品上放置重物。
本产品不防水。避免湿气和水。

❗ 注意

若产品接触到过多汗水，请清洁产品。
保持耳塞干净。

高清扬声器

如果正在连接的设备的通信网络支持高清语音通话，您可以进行高清语音通话和聆听高清音乐。

产品组件

LG TONE Style HBS-SL5
（已安装中号耳胶）

附赠耳胶
（小号和大号）

USB Type C™ 充电线

用户手册

注意：实际产品设计可能与本手册中所示的图像有所不同。

3

⚠ 提醒

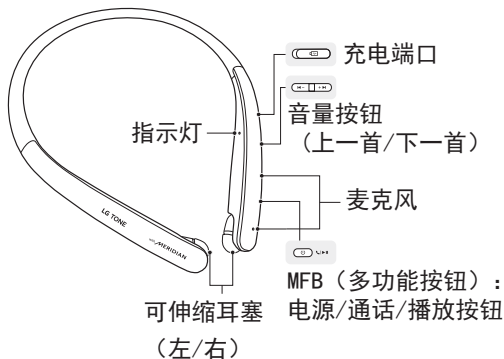确保使用正版的 LG Electronics 部件。使用假冒部件可能损坏产品，并因此使保修无效。使用产品随附的 USB Type C™ 充电线。

❗ 注意

完整的手册可从 LG Electronics 网站下载。

⬇ www.lg.com ＞ 首页 ＞ 售后服务中心 ＞ 产品指导&下载 ＞ 产品手册

产品说明

充电端口

音量按钮
（上一首/下一首）

指示灯

麦克风

LG TONE

MFB（多功能按钮）:
电源/通话/播放按钮

可伸缩耳塞

（左/右）

*实际产品的外观和规格可能会因型号而有所
不同。

注意：为防止出现听力损失，在高分贝音量控
　　　制音量时，控制音播放两次，或持续一
　　　定时间 。

打开/关闭电源

功能	描述
开机	按住 **MFB（多功能按钮）**2 秒钟。
关机	按住 **MFB（多功能按钮）**4 秒钟。

* 打开或关闭产品时，蓝色 LED 会闪烁并发出警报声。

配对和连接
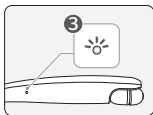
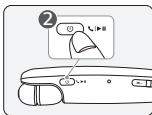放入耳塞后，按照语音提示操作便可轻松完成配对和连接过程。

注意：如果提示您要授权密码（PIN 密码），请输入 **0000**。

如果听到电池电量不足的语音提示，应该在给电池充电后再继续配对。

如果在 3 分钟内未完成配对，电源将自动关闭。 发生该情况后，按住 **MFB（多功能按钮）**2 秒钟以开启电源。

6

快速连接

1 从手机的**设置**菜单中，打开蓝牙。

2 在耳机上按住 **MFB（多功能按钮）** 2 秒钟以开启电源。

3 蓝色**指示灯**亮起，耳机进入搜索模式。

4 从手机或设备中，选择 [LG HBS-XXX] 进行连接。

   注意：以上情况中，HBS-XXX 是产品单独拥有的机型编号，不同模型的编号可能不同（例如，HBS-SL5 机型会显示 LG HBS-SL5）。
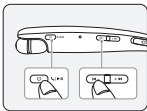
5 连接完成时会有语音信息指示。

快速配对

1 从手机的**设置**菜单中，打开蓝牙。

2 在耳机上按住 **MFB（多功能按钮）** 2 秒钟以开启电源。

3 蓝色**指示灯**亮起，耳机进入搜索模式。

4 使用屏幕未锁定的手机或附近待连接的设备，根据屏幕上的指示将其连接到耳机。

5 连接完成时会有语音信息指示。

  注意：仅支持 Android™ 6.0 或以上版本。
      与耳机连接前，请配置移动设备或待
      连接的设备以使用定位信息。

手动连接（与其他手机配对或重新配对）

1 关闭耳机时，同时按下 **MFB（多功能按钮）** 和 **音量按钮（上一首 ◄—）** 2 秒钟或更久。

2 蓝色**指示灯**亮起，耳机切换到搜索模式。

3 从手机或设备中，选择 [LG HBS-XXX] 进行连接。

   注意：以上情况中，HBS-XXX 是产品单独拥有的机型编号，不同模型的编号可能不同（例如，HBS-SL5 机型会显示 LG HBS-SL5）。

多个连接

耳机可同时连接至两台设备，例如同时连接至手机和计算机。

注意：注意：如果耳机同时连接到两台设备，主要功能将基于"主连设备"工作。

1 如需连接多台设备，请在产品连接至一台设备时关闭耳机。

2 执行"手动连接"操作的 1 到 3 步。此设备将成为"主连设备"。

3 使用以前连接的设备尝试连接至耳机。此设备将成为"次连设备"。

自动重新连接

耳机在打开后会自动连接最近连接过的设备（主连设备或次连设备）。（如果找不到设备，将激活搜索模式。）

如果产品未自动连接到您想要的设备，可在您要连接的设备上搜索您的产品，然后手动连接。

指示灯

状态	描述
开机/关机	蓝色**指示灯**闪烁。
搜索模式	蓝色**指示灯**亮起。
耳机/免提情景模式已连接/呼叫接通	**指示灯**呈蓝色闪烁，每 5 秒钟一次。

手机通话功能
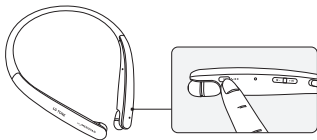
功能	状态	描述
接听电话	正在响铃	短按 **MFB（多功能按钮）**。 注意：如果振动功能已关闭，则耳机不会振动。
拨打电话	待机	如果使用手机拨打电话，通话将自动接通到耳机。
切换通话	正在通话	按住**音量按钮（下一首 ＋ ▶）** 1 秒钟，在耳机和手机之间切换通话。

功能	状态	描述
语音拨号	待机/播放音乐	短按两次 **MFB（多功能按钮）** 可激活耳机语音。
在手机上接听来电	正在通话	您可以在通话期间通过短按 **MFB（多功能按钮）** 接听另一个电话。 现有通话将切换为呼叫等待状态。短按 **MFB（多功能按钮）** 切换回上一个通话。 如果之前的通话处于待机状态，您可以在手机上完成当前通话。（性能可能因手机设置而异。）
拒接来电	正在响铃	短按 **MFB（多功能按钮）** 两次。

功能	状态	描述
启用/禁用静音	正在通话	按住**音量按钮（上一首 ◄─）** 1 秒钟。
音量调高/音量调低	正在通话	短按**音量按钮（下一首 ＋►）**或**音量按钮（上一首 ◄─）**。

注意：语音拨号功能可在主连接设备或您上次用来通话的设备上使用。（根据所使用的手机，语音拨号功能工作方式可能不同。）

播放音乐
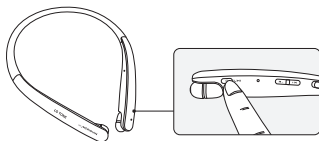
功能	状态	描述
播放	待机	短按 **MFB（多功能按钮）**。
暂停	音乐开启	短按 **MFB（多功能按钮）**。
播放上一首/下一首歌曲	音乐开启	按住**音量按钮（下一首 ＋▸▸）** 1 秒钟，以播放下一首歌曲。 按住**音量按钮（上一首 ◂◂ －）** 1 秒钟，以播放上一首歌曲。
音量调高/音量调低	音乐开启	短按**音量按钮（下一首 ＋▸▸）** 或**音量按钮（上一首 ◂◂ －）**。
均衡器模式更改	音乐开启	同时按住**音量按钮（下一首 ＋▸▸）** 或**音量按钮（上一首 ◂◂ －）** 1 秒钟，进入下一步。 低音增强（默认）> 正常 > 高音增强。

切换音乐播放器

要在连接多部设备时切换到其他音乐播放设备，请停止目前正在播放的音乐，然后从所选设备播放音乐。

电池充电和提示

打开**充电端口**盖，将充电器连接到**充电端口**。
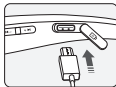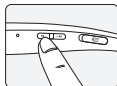
指示灯	红色	紫色	蓝色
电池状态	正在充电	80%	已完成

充电时，耳机将关机。

注意：如果温度过高或过低，状态指示灯将闪烁红色，电池无法充电。如需了解电池更多信息，请转至 [附加信息] > [5. 电池的循环再利用]。

在待机模式下按住**音量按钮（上一首 ◄–）**1
秒钟，通过语音检查指示灯和电池电量。

电池状态	电量充足	正常	电量不足
指示灯	蓝色闪烁	紫色闪烁	红色闪烁

振动提醒设置
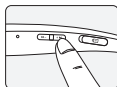
默认情况下，耳机设置为震动提醒。如需启用或禁用震动提醒，请在待机模式下按住**音量按钮（下一首 + ►►）**2 秒钟。

注意：如果您关闭振动提醒，即使在接到来电或者超出通信范围时，它也不会振动。

超出范围

如果连接到产品的设备超出有效通信范围，通信信号会变弱并且通信会中断。有效通信范围因周围环境和其他条件而异。

当设备再次回到有效通信范围内时，产品会自动重新连接到该设备。如果设备未自动重连，请按产品上的 MFB（多功能按钮）手动连接。

当连接了多个设备时，如果未使用的设备超出通信范围，产品会振动并且有语音信息提示连接断开。在此情况下，不支持自动重新连接功能。

LG Tone & Talk™

Tone & Talk 支持包括文本，语音，打电话等多种功能。

从安智市场或 App Store®(iOS) 中搜索并安装"LG Tone & Talk"。

18

您也可以扫描右侧二维码，以从 App Store® 中安装 Tone & Talk。

注意：在苹果 iOS 设备中，Tone & Talk 的 某些功能无法激活。

功能	描述
语音通知	如果您将语音通知设置为"开启"，将会语音播报短信、彩信和社交媒体信息。
震动通知	您可在通知设置中将震动通知设置为开启/关闭。
查看耳机电量	您可以通过应用屏幕查看耳机电量。
更改均衡器模式	您可在均衡器菜单中更改均衡器模式。
软件更新	耳机存在可用的软件更新时，它会向您通知该更新并允许您更新软件。

故障排除

问题	解决方案
不能开机	检查电池电量并充电。
无法通过耳机拨打电话	如果手机不支持耳机和免提功能，您不能使用通话功能。 检查电池电量并充电。
无法将耳机连接到手机	检查耳机是否已打开。 检查耳机是否处于搜索模式。 – 如需切换至搜索模式，请同时按住 **MFB（多功能按钮）**和**音量按钮（上一首 ⏮–）** 2 秒钟或更久，直至耳机关闭。
音量较小	控制连接到耳机的设备的音量。

规格和功能

条目	备注
蓝牙规格	V 5.0（耳机/免提/A2DP/AVRCP）
电池	电池 3.7 V/75 mAh，锂聚合物电池
待机时间	长达 450 小时*
通话时间	长达 8 小时*
音乐播放时间	长达 8 小时*
重量	41.8 克
尺寸	156.5 毫米(宽) X 178.7 毫米(长) X 18 毫米(高)
充电时间	约 1 小时
额定输入电压	DC 4.75 V ～ 5.3 V，400 mA
工作温度	0 ℃ (+32 ℉) ～ +35 ℃ (+95 ℉)
工作频率	2402 MHz 至 2480 MHz

*使用时长可能会因所连接的移动设备、所使用的功能、设置、信号强度、工作温度、频段及其他使用方法而有所差异。

*CMIIT ID 用产品铭牌方式标识

确认声明

蓝牙™是 Bluetooth SIG,Inc. 在全球的注册商标。

附加信息

1. 蓝牙射频

立体声蓝牙耳机是无线收发器，工作频段为 2.402~2.480 GHz，即微波频段。与兼容设备进行通信时，符合国家相应规定及国际健康机构规定的射频范围。

2. 蓝牙连接注意事项

下列环境影响蓝牙信号的范围和接收：

- 在蓝牙设备与已连接设备之间存在墙壁、金属、人体或其他障碍物时
- 在使用 2.4 Ghz 频率信号的设备(无线局域网、无线手机、微波炉等)靠近正在使用的设备时

3. 易燃易爆环境

在易燃易爆环境中请关闭本产品。在特殊情况下极个别电器产品可能会产生火花(极少见)，这种火花可能造成火灾或爆炸。为了您和他人的安全，请在非易燃易爆环境中使用本产品。

4. 电池使用警示说明

可充电电池使用方法正确，能使电池保持高效状态和长时间的使用寿命。长期不使用或者放置于极端环境(高于50°C或者低于-10°C)下，容易造成电池容量减少或缩短电池使用寿命。常温下使用会提供高效电量，但在低温下会使电量稍微减低。

充电只能在10℃～45℃环境下进行。禁止拆解、撞击、挤压或投入火中。 若出现严重鼓胀，请勿继续使用。请勿置于高温环境中。

5. 电池的循环再利用

本产品中的电池需要报废时，应按照当地电池处理规定进行处理。不能按照一般生活垃圾进行处理。LG电子合作方取出电池后，应按照当地规定进行处理。

6. 保修条件

- 产品保修时需提供产品的同时，也要提供购买时销售方提供的发票原件(包含产品购买日期，序列号等信息)。如果提供的发票上的信息被删除或更改，LG电子有权拒绝维修。
- 本保修条件不包含以下情形下的故障：
  1) 因不按照产品正常使用方式使用引起的故障。
  2) 正常磨损或误操作引起的故障。

3）因有毒或有腐蚀性物质的损伤。

4）突发事故，自行拆解更改，自然灾害等引起的故障。

– 本保修条件不包括，未经得到LG电子授权的人员拆卸，修理，改装过的产品。

保障条件

对消费者购买本产品之日起的1年内，LG电子保证本产品的设计和原材料及技术方面不存在缺陷。如阁下的产品需要保障服务，请直接联系产品销售店或者本产品指定售后服务点。

重要安全提示
听力受损的预防

耳机的声音过大可能造成听觉永久受损，请将声音设置在安全级别使用。
长时间听音量过高的声音，耳朵会慢慢习惯这种声音，久而久之听力会受到伤害。

如果耳朵出现回音、耳鸣或者听到的声音低且模糊，请停止使用耳机，并去做听力检查。

耳机的声音设置的越大，听觉受损可能会更严重。

为保护您的听力，专家建议如下：

· 限制耳机在高音量状态下的使用时间

· 避免用高音量阻挡周边环境杂音

· 听不到周边人的讲话声时，调小耳机声音大小（设置手机的声音的方法，请参考手机相关说明书。）

安全使用耳机

驾驶车辆时为了安全，建议您不要使用耳机听音乐。

任何需要高度集中注意力的活动时，建议您不要使用耳机。

关于安全有效使用耳机的准则。
产品中有害物质的名称及含量

部件 名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴 联苯 (PBB)	多溴二 苯醚 (PBDE)
印刷电 路板 组件	×	○	○	○	○	○
塑料	○	○	○	○	○	○
金属	×	○	○	○	○	○
电池	×	○	○	○	○	○
附件	×	○	○	○	○	○

本表格依据SJ/T 11364 的规定编制。

○：表示该有害物质在该部件所有均质材料中的
　　含量均在GB/T 26572 规定的限量要求以下。

×：表示该有害物质至少在该部件的某一均质材料
　　中的含量超出GB/T 26572 规定的限量要求。

标记为X的部品以现在的技术尚不能减少有害物质。LG电子正在尽最大的努力开发有害物质减少技术。

本产品的环保使用期限标识如图所示。

该标识的环保使用期限以本说明书中所述的正常使用条件为基准。

Open Source Software Notice

This product from LG Electronics, Inc. contains the open source software detailed below. Please refer to the indicated open source licenses (as are included following this notice) for the terms and conditions of their use.

Open Source	License	Copyright
FreeRTOS 8. 2. 3	GPL-2. 0-with-freertos-exception-2. 0	-

The source code for the above may be obtained free of charge of LG Electronics, Inc. at http://opensource.lge.com. LG Electronics, Inc. will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to opensource@lge.com. This offer is valid for a period of three years after our last shipment of

this product. This offer is valid to anyone in receipt of this information.

Please be informed that LG Electronics, Inc. product may contain open source software listed in the tables below.

Open Source	License	Copyright
Mbed TLS 2.16.0	Apache-2.0	Copyright (c) 2006-2015, ARM Limited
–	BSD-2-Clause	Copyright (c) 2005, Colin Percival.

Apache-2.0

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include

works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those

patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry

prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE

file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding

the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness

of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and

charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format.

BSD-2-Clause

GPL-2.0-with-freertos-exception-2.0

Any FreeRTOS source code, whether modified or in its original release form, or whether in whole or in part, can only be distributed by you under the terms of the GNU General Public License plus this exception. An independent module is a module which is not derived from or based on FreeRTOS.

EXCEPTION TEXT:

Clause 1

Linking FreeRTOS statically or dynamically with other modules is making a combined work based on FreeRTOS. Thus, the terms and conditions of the GNU General Public License cover the whole combination.

As a special exception, the copyright holder of FreeRTOS gives you permission to link FreeRTOS with independent modules that communicate with FreeRTOS solely through the FreeRTOS API

interface, regardless of the license terms of these independent modules, and to copy and distribute the resulting combined work under terms of your choice, provided that

+ Every copy of the combined work is accompanied by a written statement that details to the recipient the version of FreeRTOS used and an offer by yourself to provide the FreeRTOS source code (including any modifications you may have made) should the recipient request it.

+ The combined work is not itself an RTOS, scheduler, kernel or related product.

+ The independent modules add significant and primary functionality to FreeRTOS and do not merely extend the existing functionality already present in FreeRTOS.

Clause 2

FreeRTOS may not be used for any competitive

or comparative purpose, including the publication of any form of run time or compile time metric, without the express permission of Real Time Engineers Ltd. (this is the norm within the industry and is intended to ensure information accuracy).

The standard GPL exception text:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it. For example, if you distribute copies of such a program, whethergratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software.

If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all. The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a notice placed by the

copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you". Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies

of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program. You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute

or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be

reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it. Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program. In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is

54

allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.) The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place

counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance

of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program. If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances. It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software

distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice. This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new

versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of

our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE
OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS
AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS" WITHOUT WARRANTY OF
ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE.
THE ENTIRE RISK AS TO THE QUALITY
AND PERFORMANCE OF THE PROGRAM IS
WITH YOU. SHOULD THE PROGRAM PROVE
DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR
CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public,

the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found. <one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License** as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A

PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software

Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail. If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details. The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called

something other than `show w' and `show c';
they could even be mouse-clicks or menu items--
whatever suits your program.

You should also get your employer (if you work
as a programmer) or your school, if any, to sign
a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision' (which
makes passes at compilers) written by James
Hacker. <signature of Ty Coon>, 1 April 1989 Ty
Coon, President of Vice

This General Public License does not permit
incorporating your program into proprietary
programs. If your program is a subroutine library,
you may consider it more useful to permit linking
proprietary applications with the library. If this is
what you want to do, use the GNU Library General
Public License instead of this License.