

RIGOL

DG2000 series Open Source Acknowledgment

**Dec. 2025
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RIGOL's DG2000 series product uses a number of open source software packages. This document lists the open source software packages used in DG2000 series product. For details about the software package list, refer to "Software packages".

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Package	Version	License
AES	null	GPL v2.0
Arm-linux-gnueabi	5.1.1	GPL v2.0
Busybox	1.25.0	GPL v2.0
buildroot	2016.08.1	GPL v2.0
bash	4.3.30	GPL v3.0
dnsmasq	2.76	GPL v2.0/v3.0
dosfstools	4.0	GPL v3.0
ethtool	4.6	GPL v2.0
evtest	1.33	GPL v2.0
exfat	1.2.4	GPL 2.0
exfat-utils	1.2.4	GPL v2.0
genext2fs	1.4.1	GPL v2.0
hostapd	2.5	GPL v2.0
host-autoconf	2.69	GPL v2.0
host-automake	1.15	GPL v2.0
host-bison	3.0.4	GPL v3.0
host-fakeroot	1.20.2	GPL v3.0
host-gettext	0.19.8.1	GPL v3.0
host-libtool	2.4.6	GPL v2.0
host-m4	1.4.17	GPL v3.0
iproute2	4.5.0	GPL v2.0
iptables	1.6.0	GPL v2.0
libfuse	2.9.7	GPL v2.0
libid3tag	0.15.1b	GPL v2.0
libmad	0.15.1b	GPL v2.0
Libnl	3.2.27	GPL v2.0/v2.1/LGPL
Linux	3.14	GPL v2.0
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madplay	0.15.2b	GPL v2.0
mtd	1.5.2	GPL v2.0
netplug	1.2.9.2	GPL v2.0
ntfs-3g	2016.2.22	GPL v2.0
OpenSSL	1.0.2.h	OpenSSL License
Qt	5.5.0	LGPL v3.0
readline	6.3	GPL v3.0
util-linux	2.28	GPL v2.0
U-Boot	2015.07	GPL v2.0 or later
wireless_tools	30.pre9	GPL v2.0

RIGOL's DG800/900 series product applications dynamically link to the Qt Library (Version 5.5.0). The copyright of the Qt Library belongs to The Qt Company and other contributors.

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Package	Version	Copyright
AES	null	Copyright (c) 2011 The Chromium OS Authors. (C)Copyright 2011 NVIDIA Corporation www.nvidia.com
Arm-linux-gnueabi	5.1.1	Copyright (C) 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 Free Software Foundation, Inc.
bash	4.3.30	Copyright (C) 2007 Free Software Foundation, Inc.
buildroot	2016.08.1	Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
Busybox	1.25.0	Copyright (C) 1989, 1991 Free Software Foundation, Inc.
dosfstools	4.0	Copyright (C) 2007 Free Software Foundation, Inc.
dnsmasq	2.76	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Copyright (C) 2007 Free Software Foundation, Inc.
ethtool	4.6	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
evtest	1.33	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
exfat	1.2.4	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
exfat-utils	1.2.4	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
genext2fs	1.4.1	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
hostapd	2.5	Copyright (c) 2002-2015, Jouni Malinen <j@w1.fi> and contributors
host-autoconf	2.69	Copyright (C) 1989, 1991 Free Software

		Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
host-automake	1.15	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
host-bison	3.0.4	Copyright (C) 2007 Free Software Foundation, Inc.
host-fakeroot	1.20.2	Copyright (C) 2007 Free Software Foundation, Inc.
host-gettext	0.19.8.1	Copyright (C) 2007 Free Software Foundation, Inc.
host-libtool	2.4.6	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
host-m4	1.4.17	Copyright (C) 2007 Free Software Foundation, Inc.
iproute2	4.5.0	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
iptables	1.6.0	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
libfuse	2.9.7	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
libid3tag	0.15.1b	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
libmad	0.15.1b	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
libnl	3.2.27	Copyright (C) 1991, 1999 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Linux	3.14	Copyright (C) 1989, 1991 Free Software Foundation, Inc.
LXI	2.26	Copyright (c) 2010, Oracle America, Inc.
madplay	0.15.2b	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
mtd	1.5.2	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
netplug	1.2.9.2	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 59 Temple Place - Suite 330

		Boston, MA 02111-1307, USA.
ntfs-3g	2016.2.22	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
OpenSSL	1.0.2.h	Copyright (c) 1998-2015 The OpenSSL Project
Qt	5.5.0	Copyright (C) 2015 The Qt Company Ltd.
readline	6.3	Copyright (C) 2007 Free Software Foundation, Inc.
util-linux	2.28	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
U-Boot	2015.07	(C) Copyright 2000 - 2013
wireless_tools	30.pre9	Copyright (C) 1989, 1991 Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Chapter 5 Building and Install

For PC/Desktop (Development)

```
```bash
```

```
cd /path/to/SardineTouchProj
```

```
qmake SardineTouch.pro -r -spec linux-g++-32 CONFIG+=debug
```

```
make
```

```
cd SardineMain
```

```
./SardineMain -debug
```

```
```
```

For Embedded System (Target Device)

Prerequisites:

1. Cross-compilation toolchain (ARM GCC)
2. Qt 5.5.0 for embedded Linux
3. OpenSSL 1.1.0a libraries for ARM
4. Required system libraries: pthread, dl

Build Steps:

```
```bash
```

```
Set up cross-compilation environment
```

```
export CROSS_COMPILE=arm-linux-gnueabihf-
```

```
export PATH=$PATH:/path/to/arm-toolchain/bin
```

```
Configure Qt for cross-compilation
```

```
cd /path/to/qt-5.5.0-embedded-arm
```

```
./configure -prefix /usr/qt-5.5.1-embedded-arm \
```

```
 -opensource \
```

```
 -confirm-license \
```

```
 -release \
```

```
 -shared \
```

```
 -no-pch \
```

```
 -qt-zlib \
```

```
 -qt-libpng \
```

```
 -qt-libjpeg \
```

```
 -no-opengl \
```

```
 -linuxfb \
```

```
 -no-xcb \
```

```
 -no-cups \
```

```

-no-iconv \
-no-evdev \
-no-tslib \
-no-icu \
-no-fontconfig \
-nomake examples \
-nomake tests

make
make install

Build OpenSSL for ARM
cd /path/to/openssl-1.1.0a
./Configure linux-armv4 --cross-compile-prefix=arm-linux-gnueabihf- \
 --prefix=/usr/local/ssl \
 shared

make
make install

Build the application
cd /path/to/SardineTouchProj
qmake SardineTouch.pro -r -spec linux-g++ CONFIG+=release
CONFIG+=GCC_ARM

make clean
make

Install to target device
Copy the following to target device:
- SardineMain executable
- Qt libraries (libQt5Core.so, libQt5Gui.so, libQt5Widgets.so, etc.)
- OpenSSL libraries (libssl.so, libcrypto.so)
- Required system libraries
- Resource files (images, XML files, etc.)
` ``

```

#### Installation Information for Modified Versions:

According to the requirements of LGPL v3.0, if you modify the Qt Library and create a modified version of the Combined Work, you must provide the following installation information:

1. **\*\*Minimal Corresponding Source\*\***: The source code of the modified Qt Library components.

2. **\*\*Corresponding Application Code\*\***: The source code of the application (SardineMain and related modules).
3. **\*\*Installation Scripts\*\***: Scripts or instructions needed to install and execute the modified version.
4. **\*\*Build Instructions\*\***: Complete build instructions including:
  - Compiler version and flags
  - Build system configuration (qmake settings)
  - Dependencies and their versions
  - Environment variables required
5. **\*\*Linking Information\*\***: Information about how the application links with the modified Qt Library (static or dynamic linking).

To obtain the complete source code and installation information, please contact:

**RIGOL TECHNOLOGIES CO., LTD.**  
E-mail: [service@rigol.com](mailto:service@rigol.com)  
Website: [www.rigol.com](http://www.rigol.com)