DM8168 DVR RDK QT INSTALLATION GUIDE



DVR RDK Version: 02.00.00.xx

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Qt Installation

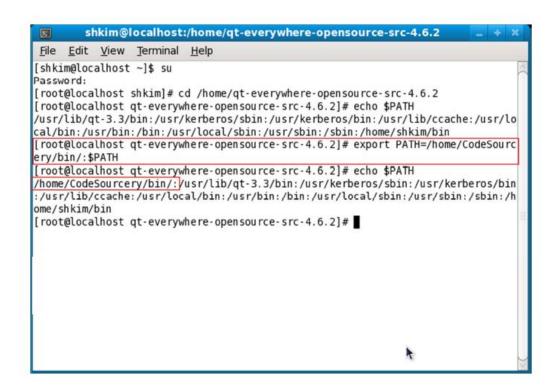
- Download the Open Source LGPL version of Qt libraries 4.6.2 (qt-everywhere-opensource-src-4.6.2.tar.gz) for embedded Linux on website
 ftp://ftp.qt.nokia.com/qt/source/qt-everywhere-opensource-src-4.6.2.zip
- Assume the installation(download) root directory is \$(ROOT_DIR) and the source directory is \$(DVR_RDK_INSTALL_DIR)
- Untar \$(ROOT_DIR)/qt-everywhere-opensource-src-4.6.2.tar.gz as shown below

```
shkim@localhost:/home
File Edit View Terminal Help
[shkim@localhost ~]$ su
Password:
[root@localhost shkim]# cd /home/
[root@localhost home]# ll
total 156868
drwxr-xr-x 9 root root 4096 2011-06-22 20:17 CodeSourcery drwx-----. 2 root root 16384 2011-03-18 08:30 lost+found
- rwxr--r--
            1 shkim shkim 160601949 2010-12-27 01:37 qt-everywhere-opensource-s
rc-4.6.2.tar.gz
drwx----. 37 shkim shkim
                                 4096 2011-06-22 20:20 shkim
[root@localhost home]# tar zxf qt-everywhere-opensource-src-4.6.2.tar.gz
[root@localhost home]# ll
total 156872
drwxr-xr-x 9 root root 4096 2011-06-22 20:17 CodeSourcery
                            16384 2011-03-18 08:30 lost+found
drwx----- 2 root root
drwxr-xr-x 14 1000 users
                              4096 2010-02-11 07:55 qt-everywhere-opensource-s
rc-4.6.2
-rwxr--r- 1 shkim shkim 160601949 2010-12-27 01:37 qt-everywhere-opensource-s
rc-4.6.2.tar.gz
drwx-----. 37 shkim shkim
                                 4096 2011-06-22 20:20 shkim
[root@localhost home]#
```

```
$ cp -r <DVR_RDK_INSTALL_DIR>/dvr_rdk/dvrapp/dvrgui/linux-
TIarmv7-g++ $(ROOT_DIR) / qt-everywhere-opensource-src-4.6.2/
```



- Copy qmake.conf found in "linux-TIarmv7-g++" to \$(ROOT_DIR)/qt-everywhere-opensource-src-4.6.2/mkspecs/qws/
- Install Code Sourcery Tool chain as mentioned in DM8168_DVR_RDK_InstallGuide and set the path for the tool chain as below



 Run ./configure at \$(ROOT_DIR)/qt-everywhere-opensource-src-4.6.2 with the following options

```
$ ./configure -embedded arm -platform /qws/linux-x86-g++ - xplatform /qws/linux-TIarmv7-g++ -depths 16,24,32 -little-endian -no-mmx -no-3dnow -no-sse -no-sse2 -no-glib -no-cups -no-largefile -no-accessibility -no-openssl -no-gtkstyle -qt-freetype -qt-mouse-pc -qt-mouse-linuxtp -qt-mouse-linuxinput -plugin-mouse-linuxtp -plugin-mouse-pc -fast -qt-gfx-transformed - opensource
```



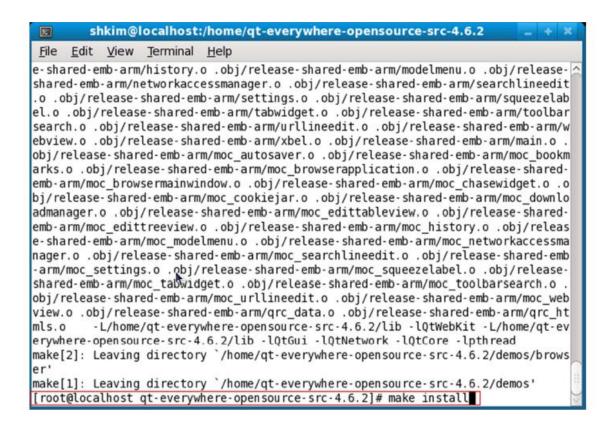
```
shkim@localhost:/home/qt-everywhere-opensource-src-4.6.2
File Edit View Terminal Help
[shkim@localhost ~]$ su
Password:
[root@localhost shkim] # cd /home/qt-everywhere-opensource-src-4.6.2
[root@localhost qt-everywhere-opensource-src-4.6.2]# echo $PATH
/usr/lib/qt-3.3/bin:/usr/kerberos/sbin:/usr/kerberos/bin:/usr/lib/ccache:/usr/lo
cal/bin:/usr/bin:/bin:/usr/local/sbin:/usr/sbin:/sbin:/home/shkim/bin
[root@localhost qt-everywhere-opensource-src-4.6.2]# export PATH=/home/CodeSourc
ery/bin/:$PATH
[root@localhost gt-everywhere-opensource-src-4.6.2]# echo $PATH
/home/CodeSourcery/bin/:/usr/lib/qt-3.3/bin:/usr/kerberos/sbin:/usr/kerberos/bin
:/usr/lib/ccache:/usr/local/bin:/usr/bin:/bin:/usr/local/sbin:/usr/sbin:/sbin:/h
ome/shkim/bin
[root@localhost gt-everywhere-opensource-src-4.6.2]# ./configure -embedded arm
platform /qws/linux-x86-g++ -xplatform /qws/linux-TIarmv7-g++ -depths 16,24,32
little-endian -no-mmx -no-3dnow -no-sse -no-sse2 -no-glib -no-cups -no-largefile
-no-accessibility -no-openssl -qt-freetype -fast -qt-qfx-transformed -opensourc
e
```

• Run "make"

```
shkim@localhost:/home/qt-everywhere-opensource-src-4.6.2
File Edit View Terminal Help
 for /home/qt-everywhere-opensource-src-4.6.2/demos/sub-attaq/sub-attaq.pro (fa
st)
 for /home/qt-everywhere-opensource-src-4.6.2/demos/affine/affine.pro (fast)
 for /home/qt-everywhere-opensource-src-4.6.2/demos/gradients/gradients.pro (fa
st)
 for /home/qt-everywhere-opensource-src-4.6.2/demos/browser/browser.pro (fast)
 for /home/qt-everywhere-opensource-src-4.6.2/demos/books/books.pro (fast)
 for /home/qt-everywhere-opensource-src-4.6.2/demos/pathstroke/pathstroke.pro (
fast)
 for /home/qt-everywhere-opensource-src-4.6.2/demos/arthurplugin/arthurplugin.p
ro (fast)
 for /home/qt-everywhere-opensource-src-4.6.2/demos/boxes/boxes.pro (fast)
 for /home/qt-everywhere-opensource-src-4.6.2/demos/qmediaplayer/qmediaplayer.p
ro (fast)
 for /home/qt-everywhere-opensource-src-4.6.2/demos/sqlbrowser/sqlbrowser.pro (
fast)
Qt is now configured for building. Just run 'gmake'.
Once everything is built, you must run 'gmake install'.
Qt will be installed into /usr/local/Trolltech/QtEmbedded-4.6.2-arm
To reconfigure, run 'gmake confclean' and 'configure'.
root@localhost qt-everywhere-opensource-src-4.6.2]# make
```



• Run "make install"



- Add path of QT for on the shell profile (like .bash_profile) as follows
 - export QTDIR=/\$(ROOT_DIR)
 - export QTLIB=/\$(ROOT_DIR)/lib
 - export QTINC=/\$(ROOT DIR)/include



