TouchGFX 4.13.0 Third Party Components

Framework:

The following third party components are used for the core framework code. That is the actual TouchGFX C++ code that is included in customer code.

3rd Party Component	Information	Version	Format	License terms / Link to license terms
Penner Easing Equations	Robert Penner's easing equations are Open Source under the BSD License	N/A	N/A	http://robertpenner.com/easing_terms_of_use.html

Designer:

The following third party components are used for by the TouchGFX Designer.

Please note that none of these components are present in the generated customer product code.

3rd Party Component	Information	Version	Format	License terms / Link to license terms
CompareNETObjects	Microsoft Public License (MS-PL)	3.05.0.0	Binary	https://opensource.org/licenses/MS-PL
log4net	APACHE LICENSE, VERSION 2.0	2.0.5	Binary	http://www.apache.org/licenses/
MoreLinq	The MIT License (MIT)	1.4.0	Binary	https://opensource.org/licenses/MIT
Newtonsoft.json	Copyright (c) 2007 James Newton-King The MIT License (MIT)	9.0.1	Binary	https://opensource.org/licenses/MIT
NPOI	APACHE LICENSE, VERSION 2.0	2.1.3.1	Binary	http://www.apache.org/licenses/
Extended.Wpf.Toolkit	Microsoft Public License (Ms-PL)	2.9.0	Binary	https://opensource.org/licenses/MS-PL
ManyConsole	The MIT License (MIT)	0.4.2.20	Binary	https://github.com/fschwiet/ManyConsole/blob/master/LICENSE.txt
NUnit	Copyright © 2002-2012 Charlie Poole Copyright © 2002-2004 James W. Newkirk, Michael C. Two, Alexei A. Vorontsov Copyright © 2000-2002 Philip A. Craig	3.7.0	Binary	http://nunit.org/docs/2.6.1/license.html
Sharp Zip Lib	Modified GPL	0.86.0	Binary	https://icsharpcode.github.io/SharpZipLib/

3rd Party Component	Information	Version	Format	License terms / Link to license terms
Ndesk Options	http://www.ndesk.org/Options The MIT License (MIT)	0.2.1	Binary	https://opensource.org/licenses/mit-license.php

Hardware Abstraction Layer (HAL):

The following third party components are used for HAL related source code. That is the ports that can be downloaded for demo boards from various vendors.

3rd Party Component	Information	Version	Format	License terms / Link to license terms
HAL Related Source Code	In case of the various header files provided by silicon manufacturers and tool vendors that define processor specific memory addresses and utility macros, the users must ensure license conditions are adhered to for any use other than compilation of the TouchGFX demo and examples applications.	N/A	N/A	N/A

Tools:

The following third party components are used for the build environment and converter tools included in the TouchGFX package.

Please note that none of these components are present in the generated customer product code.

3rd Party Component	Information	Version	Format	License terms / Link to license terms
Libpng	libpng version 1.6.36 - December 1, 2018 Copyright (c) 2018 Cosmin Truta Copyright (c) 1998-2002,2004,2006-2018 Glenn Randers-Pehrson Copyright (c) 1996-1997 Andreas Dilger Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc. This code is released under the libpng license. (See LICENSE, below.) Authors and maintainers: libpng versions 0.71, May 1995, through 0.88, January 1996: Guy Schalnat libpng versions 0.89, June 1996, through 0.96, May 1997: Andreas Dilger libpng versions 0.97, January 1998, through 1.6.35, July 2018: Glenn Randers-Pehrson. libpng version 1.6.36, December 1, 2018: Cosmin Truta	1.6.36	Binary	http://www.libpng.org/pub/png/src/libpng-LICENSE.txt

MinGW	Minimalist GNU for Windows – 7.3.0 Collection of tools for compiling, linking, etc.	7.3.0	Binary	http://www.mingw.org/license https://source-forge.net/p/mingw/mingw-org-wsl/ci/21762bb4a1bd0c88c38eead03f59e8d994349e83/tree/LI-CENSE
MSYS	Minimal SYStem A collection of tools for MinGW	1.0	Binary	Online version not available. Added in appendix below.
Ruby	Interpreter for the Ruby programming language Used by the text conversion process	1.9.3p484	Binary	https://www.ruby-lang.org/en/about/license.txt
FreeType	Library for interacting with fonts Used by the text conversion process	2.9.1	Binary	http://git.savannah.gnu.org/cgit/freetype/freetype2.git/tree/docs/FTL.TXT
zlib	Library for extracting zip files Used by the image and font conversion process	1.2.11	Binary	https://www.zlib.net/zlib_license.html
SDL	Library for drawing windows on Windows and Linux Used for the PC Simulator.	2.0.4.0	Binary	http://www.zlib.net/zlib_license.html
bundler	Ruby Gem - Various tools for interacting with Excel files, and supporting tasks	1.12.5	Source	https://opensource.org/licenses/MIT
mini-portile	Ruby Gem - Various tools for interacting with Excel files, and supporting tasks	0.5.2	Source	https://opensource.org/licenses/MIT
nokogiri	Ruby Gem - Various tools for interacting with Excel files, and supporting tasks	1.6.1-x86-mingw32	Source	https://opensource.org/licenses/MIT
parallel	Ruby Gem - Various tools for interacting with Excel files, and supporting tasks	1.9.0	Source	https://opensource.org/licenses/MIT
rake	Ruby Gem - Various tools for interacting with Excel files, and supporting tasks	0.9.2.2	Source	https://opensource.org/licenses/MIT

3rd Party Component	Information	Version	Format	License terms / Link to license terms
roo	Ruby Gem - Various tools for interacting with Excel files, and supporting tasks	2.7.1	Source	https://opensource.org/licenses/MIT
ruby-ole	Ruby Gem - Various tools for interacting with Excel files, and supporting tasks	1.2.11.7	Source	https://opensource.org/licenses/MIT
thor	Ruby Gem - Various tools for interacting with Excel files, and supporting tasks	0.19.1	Source	https://opensource.org/licenses/MIT
rdoc	Ruby Gem - Various tools for interacting with Excel files, and supporting tasks	3.9.5	Source	https://github.com/ruby/rdoc/blob/master/LICENSE.rdoc
rubyzip	Ruby Gem - Various tools for interacting with Excel files, and supporting tasks	1.1.0	Source	https://www.ruby-lang.org/en/about/license.txt
nlohmann_json	JSON for Modern C++ Copyright (c) 2013-2019 Niels Lohmann The MIT License (MIT) Used by the image conversion process	3.6.1	Source	https://github.com/nlohmann/json/releases

Demos and Examples:

The following third party components are used for by various TouchGFX demos and examples that can be downloaded by the TouchGFX Designer.

3rd Party Component	Information	Version	Format	License terms / Link to license terms
FreeRTOS	FreeRTOS is used in TouchGFX demo applications only. Note: not included in TouchGFX Framework. If the Licensee will use and embed FreeRTOS or other RTOS into final products, it is the Licensee's full responsibility to ensure compliance with the relevant license terms for the selected software.	N/A	N/A	The FreeRTOS source code is licensed under the modified GNU General Public License (GPL) http://www.freertos.org/license.txt

MSYS License:

Minimal SYStem

http://www.mingw.org/wiki/msys/

License, Use and Redistribution

MSYS contains several different other packages. Most of those packages are licensed by the GNU Public License (GPL).

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