Dear customer

LAPIS Semiconductor Co., Ltd. ("LAPIS Semiconductor"), on the 1st day of October, 2020, implemented the incorporation-type company split (shinsetsu-bunkatsu) in which LAPIS established a new company, LAPIS Technology Co., Ltd. ("LAPIS Technology") and LAPIS Technology succeeded LAPIS Semiconductor's LSI business.

Therefore, all references to "LAPIS Semiconductor Co., Ltd.", "LAPIS Semiconductor" and/or "LAPIS" in this document shall be replaced with "LAPIS Technology Co., Ltd."

Furthermore, there are no changes to the documents relating to our products other than the company name, the company trademark, logo, etc.

Thank you for your understanding.

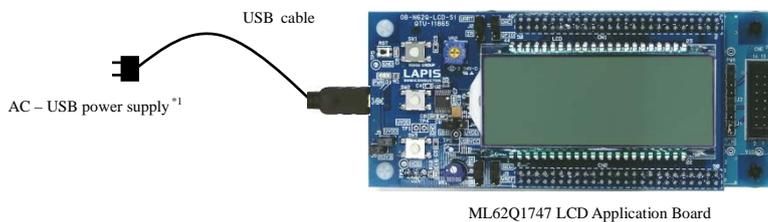LAPIS Technology Co., Ltd.
October 1, 2020

USB cable

AC – USB power supply [*1]

ML62Q1747 LCD Application Board

Figure 2   Use in a stand-alone configuration

- **AC – USB power supply are to be supplied by our customers.**
  If you connect the ML62Q1747 LCD Application Board to your PC by the USB cable, power is supplied to it.
- **Use the ML62Q1747 LCD Application Board by default settings.**

1. **Connection and launch of the Watch Sample Program**

1-1.   As shown in figure 1 and figure 2, connect the USB cable to the ML62Q1747 LCD Application Board.

1-2.   Connect the USB cable to power supply.
        The Watch Sample Program will start and blink the display of "CONFIG" and time (PM 11:59:59).

Figure 3   Display of the LCD after starting

1-3.   Push the switch"SW1" of the ML62Q1747 LCD Application Board.
        The Watch Sample Program counts time and displays time on LCD.

Figure 4   Display of the LCD after pushing the switch"SW1" of the ML62Q1747 LCD Application Board.

- **For more details regarding the method of setting time, refer to ML62Q1747 Watch Sample Program Operation Guide which is included the "ML62Q1000 LCD Starter Kit Software Package" DVD.**
  If you set time, you must connect the ML62Q1747 LCD Application Board to PC.
- **If you connect the ML62Q1747 LCD Application Board to PC, refer to step #5-3.**

2. **Shut down**

2-1.   Disconnect the USB cable from power supply.

- **If you will reset ML62Q1747 during execution of the Watch Sample Program, you must change the jumper settings. For more details regarding the jumper settings, refer to the "3.1 Use in a stand-alone configuration" of ML62Q1747 Watch Sample Program Operation Guide which is included the "ML62Q1000 LCD Starter Kit Software Package" DVD.**

3. **Copy of ML62Q1000 LCD Starter Kit Software**

3-1.   Connect the "ML62Q1000 LCD Starter Kit Soft

3-2.   Copy the "ML62Q1000_LCD_StarterKit" folder

- **Please copy the "ML62Q1000_LCD_Starte**
  except space if you do not copy it to the C d

3-3.   Eject the DVD from the DVD drive of your PC.

4. **Installing U8/U16 Development Tools**
        This section will take you through the process of
        Device Information Files and the EASE1000 V2 U

- **Please use Release 2.2.0 or later as the versi**
- **Operating environment：Windows 7*, Wind**
- **Please log on as an administrator account.**
- **When U8/U16 Development Tools existing i**
  For uninstallation, refer to Step #15.

4-1.   Extract the archives of the U8DevTool_*Rx_xx_x*
                                          *" R

4-2.   Double-click the U8DevInstaller.exe file in the "
        When this file is executed, the InstallShield Wiza
        Writer, the Device Information File and the EAS

- **Follow the instructions of the InstallShield**
- **Agree to "SOFTWARE LICENSE AGREE**
- **Do not change option settings.**
- **Select "Standard" as "Setup Type"**

        When the InstallShield Wizard displays the "Inst
        After that, installation has finished.

5. **Connecting**

5-1.   As shown in figure 1 and figure 5, connect the M
        (hereinafter "EASE1000").

5-2.   Connect the EASE1000 to PC using the USB cab

5-3.   Connect the ML62Q1747 LCD Application Boa
        If you have first connected the ML62Q1747 LCI
        are displayed in sequence.

Installing device driver software
Click here for status.

Figure 6   The USB driver installation messa

- **At this point, USB driver for the ML62Q17**
- **In this guide, the USB driver is not necessan**
- **For more details regarding the installation o**
  Operating environment" of ML62Q1747 W
  LCD Starter Kit Software Package" DVD.

6. **Installing the ML62Q1747 Watch Sample Progr**

6-1.   Extract the archives of the WatchSample_*Vxxx*.
        The Watch Sample Program will be extracted int
        folder.

- When you specify a folder other than the above as the folder specified in the [Workspace] field, specify a folder that complies with the "Restrictions on Input Value" described in the "LEXIDE-U16 User's Manual".
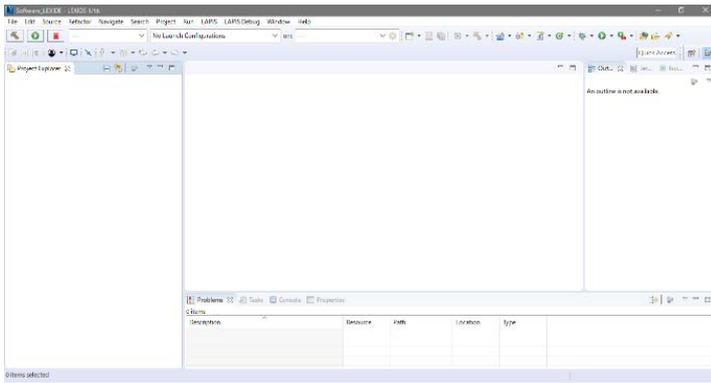
A little while, the LEXIDE-U16 will launch.

Figure 9   The LEXIDE-U16 immediately after startup (screen when maximized).

8.   Importing the ML62Q1747 Watch Sample Program project

This section will take you through the process of importing the Watch Sample Program project to the LEXIDE-U16.

8-1.   Select the [File] menu > [Import…] menu command of the LEXIDE-U16.

The [Import] dialog box will be opened.

8-2.   Select [General] > [Existing Projects into Workspace] in the [Import] dialog box and click [Next].
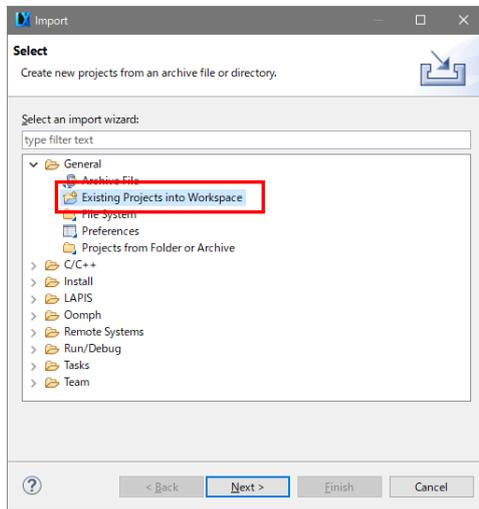

Figure 10   Select [General] > [Existing Projects into Workspace] in the [Import] dialog box.

The [Import] dialog box will be opened.

8-3.   Select "ML62Q1000_LCD_StarterKit\WatchSample_*Vxxx*\Software_LEXIDE\Watch" folder in the [Select root directory] field of the [Import] dialog box.

The selected folder contains the Watch Sample Program project file (".cproject", ".project").

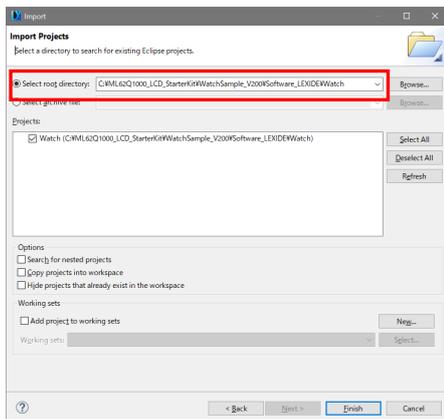*"*Vxxx*" depends on the version of the Watch Sample Program.

Figure 11   Select "root directory" in the [Project path] of the [Import] dialog box.

The Watch Sample Program project will be displayed in the [Import] dialog box (Fig 12).
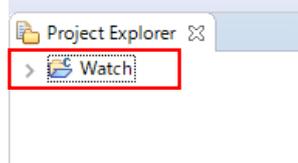

Figure 13   The LEXIDE-U16 after lo

9.   Building the ML62Q1747 Watch Sample Progra

This section will take you through the process of

9-1.   Confirm that " Watch Debug " is displayed in the

Figure 14   The "L

9-2.   Click the [Build] button on the toolbar of the LE

You will be able to see the message "Build Finis

10.   Start debugging

Load the Watch Sample Program into the ML62

start debugging.

10-1.   Select "Debug" in the [Launch Mode] field on th

Figure 15   Select "Deb

10-2.   Click the [Launch in 'Debug' mode] button on th

The LEXIDE-U16 will load the Watch Sample F

break at the beginning of the main function.

[Supplementary explanation]
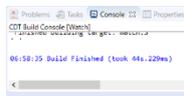
During the above processing, the LEXIDE-U16

Figure 16   Displa

After that, LEXIDE-U16 will display the dialog

shown in Fig. 17.

10-3.   Click the [Yes] button in the [Confirm Perspectiv
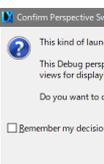

Figure 17   T

12. Stopping the ML62Q1747 Watch Sample Program

12-1.   Click the [Suspend] button on the toolbar of the LEXIDE-U16.

Execution of the Watch Sample Program will stop.

13. Stop debugging

13-1.   Click the [Stop] button on the toolbar of the LEXIDE-U16 to terminate debug.

<Terminated> will be displayed in the [Debug] tab of the LEXIDE-U16.
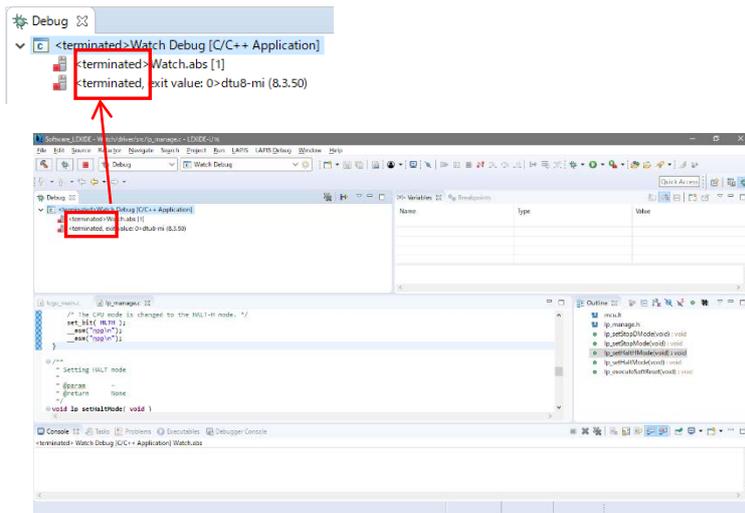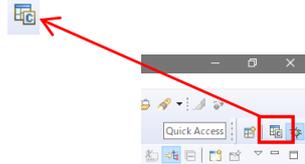
Figure 19　LEXIDE-U16 immediately after terminating Debug (screen when maximized).

[Supplementary explanation]

To return to the layout before debugging, click the [C/C++] perspective button on the right side of the toolbar

14. Shut down

< LEXIDE-U16 >

14-1.   Select the [File] menu > [Exit] menu command of the LEXIDE-U16
The LEXIDE-U16will shut down.

<Hardware >

14-2.   Disconnect the USB cable which is connected to the ML62Q1747 LCD Application Board from your PC.

14-3.   Disconnect the USB cable which is connected to the EASE1000 from your PC.

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CARD EMPTY LV-24-33 V6 80-PIN TQFP 1 MCU CARD EMPTY 32X32 RGB LED MATRIX PANEL - 6MM PITCH 3.3 - 5
VTRANSLATOR READY FOR XMEGA CASING (WHITE) RELAY4 BOARD ETHERNET CONNECTOR RFID CARD 125KHZ - TAG
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