

U2C - (USB to CAN Bus)

Features

- Programmer for A2C sensor products
- CAN interface (2.0A & B)
- Isolated USB to CAN Bus adapter
- Power from USB
- Low power consumption
- Durable aluminum
- Software upgradable via USB
- Available DLL for custom applications
- Open source driver



1 Ordering information

Part Number	Package	Interface	Isolations
U2C	Anodized aluminum	USB Type A / M12A, 5pin Female connector.	Yes

2 Packing content

- U2C - USB to CAN Bus adapter / programmer
- 1m cable with M12A Female to M12A Male connectors
- T junction, two M12A Female connectors and one M12A Male connector
- M12A Male connector with 120Ω terminating resistor and wires for supply voltage

Manual for U2C

Version 1.02
27/04 2014

Document tracking control

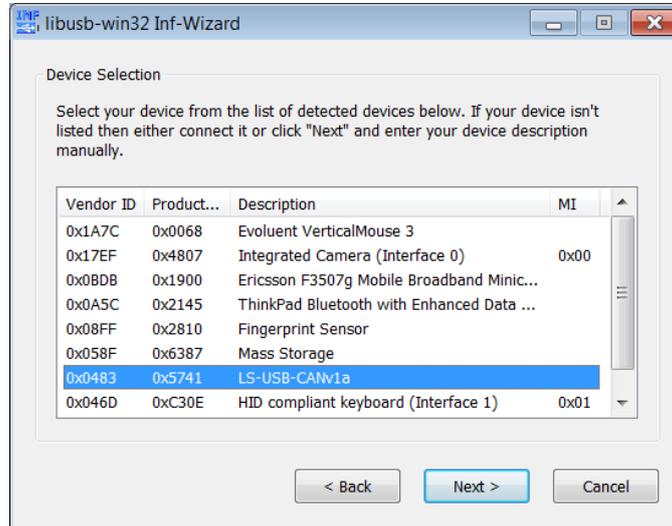
VERSION	SECTION	CHANGED BY	DATE	CHANGE
1.00	All	JL	01-06-2013	Initial Version
1.01	All	JL	09-11-2013	
1.02	All	JL	27-04-2014	Added packing content section

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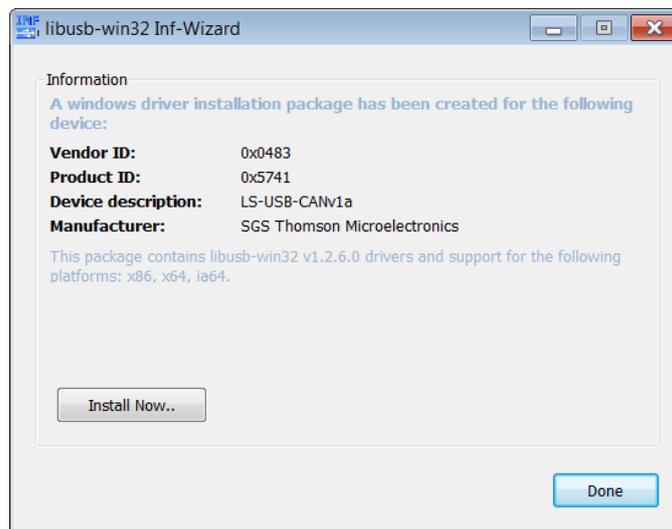
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3 Quick Installation for advanced users

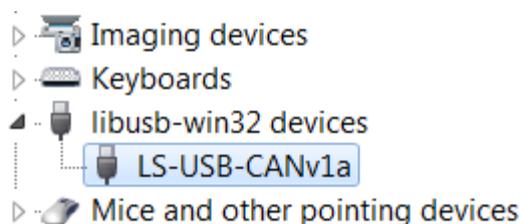
1. Download the Driver package from http://www.lilliesystems.com/Files/Software/U2C_Driver.zip
2. Connect the U2C to the computer. All searches for drivers can be skipped.
3. Unzip the driver package and run Setup
4. In the list of USB devices find the description "LS-USB-CANv1a and select it.



5. Press next again two times
6. The driver will ask you to save the driver file. You can save this driver file anywhere you wish.
7. Press Install Now..



8. A confirmation should be shown that the installation was successful.
9. Check that the LED on the U2C device is turned on.
10. Press Done.
11. A successful installation will show the U2C listed in the device manager as shown below

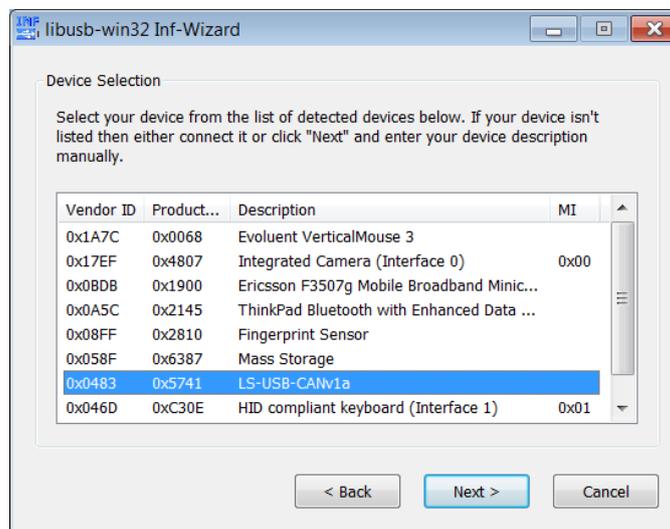


4 Installation

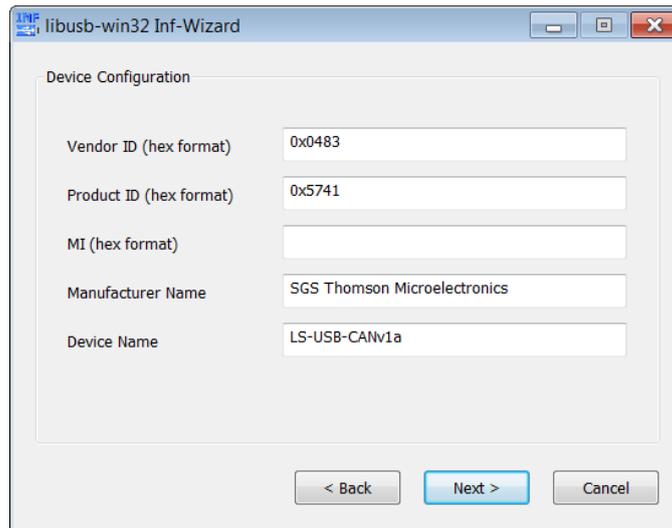
1. Download the Driver package from http://www.lilliesystems.com/Files/Software/U2C_Driver.zip
2. Insert the U2C's USB connector into the USB port on a windows computer. Windows will try to match this hardware with already existing drivers and search the windows databases. You can skip these searches, or wait until windows says it cannot find a suitable driver.
3. Navigate to the downloaded file and unzip it (mouse right click > extract all)
4. Navigate to the unzipped file and go to "U2C Driver\Windows 32bit and 64bit"
5. Double click the Setup file and the wizard will be shown.
6. Click Next



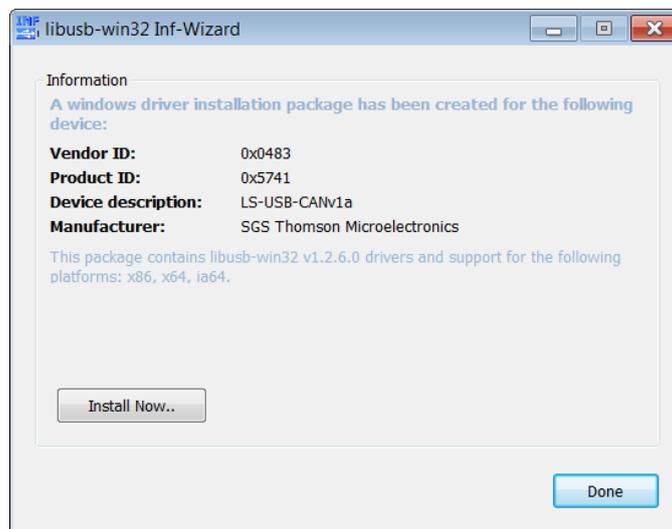
7. In the list of USB devices find the description "LS-USB-CANv1a and select it, then click next



8. Press next again



- 9. The driver will ask you to save the driver file. You can save this driver file anywhere, but it is not normally needed.
- 10. Press Install Now..



- 11. A confirmation should be shown that the installation was successful.
- 12. Press Done.
- 13. Check that the LED on the U2C device is turned on, if not, go to the trouble shooting section.

5 Specifications

Parameter	Condition	Values			Unit
CAN BUS 2.0A & B Transceiver delay loop time		Min	Typical	Max	ns
Baudrate		10	150	210	kBits/sec
Hardware Protocol		2.0A / 2.0B			
HOUSING Housing Body Material		Black anodized Aluminum			
Lid Material		Acrylic			
CONNECTIVITY (CAN SIDE) Pin 1 = Not connected Pin 2 = Not connected Pin 3= Ground Pin 4= CAN High Pin 5 = CAN Low		M12-A Male 5 pin Connector			
TEMPERATURE Operating Temperature Range		-10		50	Deg

Trouble shooting

If the U2C cannot be connected in the A2C-Utility Program, check the following.

1. Go to Device manager: Start button > Control Panel > Hardware and Sound > Device Manager. If you can find the LS-USB-CANv1a under "Other devices" as shown in Figure 1 - Device Manager, then the driver has not been installed correctly.

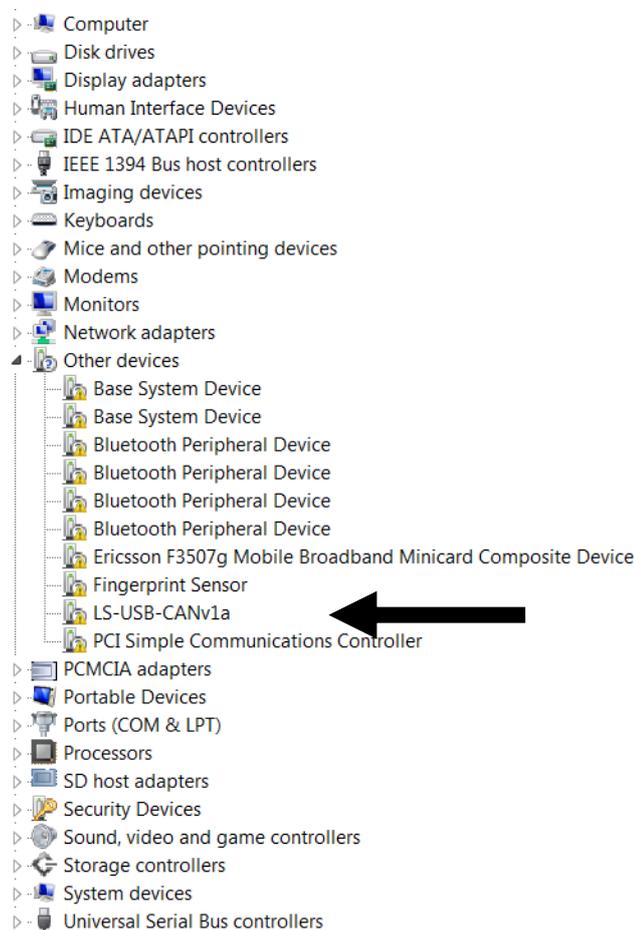
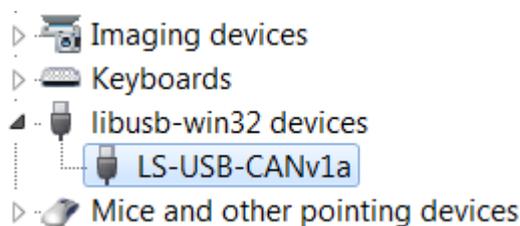


Figure 1 - Device Manager

2. Right click "LS-USB-CANv1a" and choose "Update driver software". Press "Browse my computer for driver software" and navigate to the folder where you saved the device driver during installation
3. Press Ok / Install to manually install the drivers
4. A successful installation will show the U2C listed in the device manager as shown below:



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