ModusToolbox™ CAPSENSE™ and Multi-Sense Pack release notes

ModusToolbox™ CAPSENSE™ and Multi-Sense Pack

About this document

ModusToolbox™ software is a set of tools that enable you to integrate our devices into your existing development methodology. ModusToolbox™ software consists of various libraries and middleware on GitHub, as well as an IDE and tools package installed on your computer. For more details about what is included with ModusToolbox™ software, refer to the ModusToolbox™ tools package user guide.

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1 What's Included

This version of the ModusToolbox™ CAPSENSE™ and Multi-Sense Pack provides the latest CAPSENSE™ features for use with ModusToolbox™ software:

- CAPSENSE™ Configurator version 12.10
- CAPSENSE™ Tuner version 12.10
- Sensor Designer tool version 1.50.0

1.1 Supported operating systems

OS	Version
Windows	11
macOS (ARM)	Sonoma, Sequoia; Tahoe
Linux	22.04, 24.04 LTS, 25.04

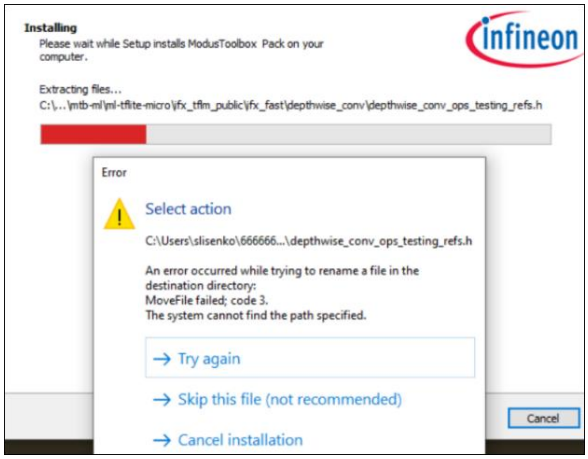
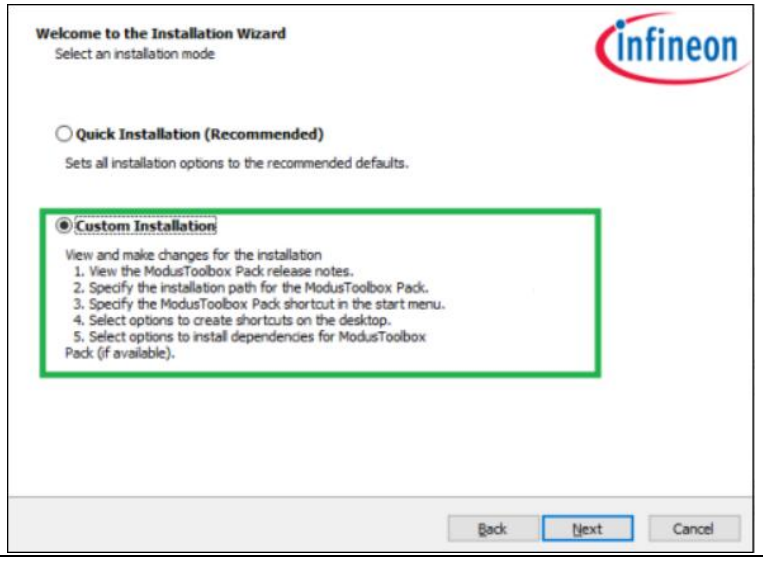
1.2 Supported software

Software	Version	Link
ModusToolbox™	3.9	https://softwaretools.infineon.com/tools/com.ifx.tb.tool.modustoolboxsetup
CAPSENSE™ Middleware Library	11.0	https://github.com/Infineon/capsense

2 Known Issues

Problem	Workaround
RTT protocol is not supported for the foam rejection calibration.	Use I2C or UART
The CAPSENSE™ Configurator allows the same pin to be configured as both Tx and Rx pins in a single widget. This pin configuration is invalid. It is impossible to perform a valid scan with this configuration.	Do not assign the same pin to Tx and Rx of a single widget.
It is possible to assign the same set of pins to two different CAPSENSE™ sensors. However, if one set differs at least by one pin, then a routing error will occur.	There is no workaround. This will be addressed in a future update.
A routing error is generated when the same pin is shared between CAPSENSE™ and other peripherals.	Do not use a pin assigned to other peripherals for CAPSENSE™. This is not a valid configuration and generating an error is expected behavior. In future releases it will be addressed by forbidding the selection of pins assigned to other peripherals for CAPSENSE™.
Misleading error when disabling the MSC channel and saving the configuration in the Device Configurator.	No workaround. Application doesn't allow saving configuration with a disabled MSC channel.
When programming or debugging, you see the following error message if the debug port is disabled in the BSP for the specific project: Error connecting DP: cannot read IDR.	You can enable the debug port in BSP for the specific project or can safely ignore these messages if the debug port is still disabled.
The common mode filter can only be used on widgets which have two or more sensors, which are similar to each other.	There is no workaround. This will be addressed in a future update.
Creating an application in Linux or macOS generates several errors, such as: fatal: detected dubious ownership in repository at *'/opt/Tools/ModusToolbox/packs/ModusToolbox-Multi-Sense-Pack/apps/ MSCLP_Inductive_Sensing_Touch_over_Metal_Keypad-2/.git'*	This is a git issue, and to resolve it run the following command: **Linux**: *git config –global –add include.path /opt/Tools/ModusToolbox/packs/ ModusToolbox-Multi-Sense-Pack/.gitconfig* **macOS** (“All users” installation only): *git config –global –add include.path /Applications/ModusToolbox/packs/ ModusToolbox-Multi-Sense-Pack/.gitconfig*

Known Issues

Problem	Workaround
On Windows, installation of the Pack may be interrupted with the following error: 	This is because of the path length limit issue on Windows. If this happened during the 'Quick Installation' option (when the Pack is installed in the default destination directory), cancel the installation and try again, but select 'Custom Installation' and install the Pack to the non-default destination directory. Keep your custom destination directory as short as possible. 
The uninstaller for the ModusToolbox™ Multi Sense Pack does not uninstall on Mac devices.	Remove manually all ModusToolbox™ Multi Sense Pack files. Note: the Pack can be present in the two locations: • /Applications/ModusToolbox-Multi-Sense-Pack • /Applications/ModusToolbox/packs/ModusToolbox-Multi-Sense-Pack
Liquid Level projects might be built with an error after migration to CAPSENSE™ Configurator 10.10 with the message: "For Liquid Level sensor widgets, Reference CDAC and Compensation CDAC must be set to AUTO (Fine CDAC can be AUTO or DISABLE), CDAC dither mode must be DISABLE".	Open CAPSENSE™ Configurator and set CDAC dither mode to DISABLE for Liquid Level widget.
The existing configuration may load with an error when CDAC Dither Auto mode is enabled.	Set the Auto mode to Disable.
CAPSENSE™ middleware has the Beta Version of the Liquid Level sensing feature, which might have an impact on the performance.	There is no workaround. This will be addressed in a future update.
In this pack, for the Liquid Level sensing, under specific disturbed-foam condition near the sensor, the differentiation between the liquid reference line and the foam level may be reduced.	There is no workaround. This will be addressed in a future update.

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