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TargetLink 2023-B Evaluation Boards

Where to go from here

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Combinations of Evaluation Boards, Microcontrollers, and Compilers

Target Simulation Module

To perform a PIL simulation on a specific evaluation board, TargetLink requires a suitable compiler. The following table shows the combinations of evaluation boards and compilers included in the Target Simulation Module (TSM). The TSM is licensed separately from the TargetLink Base Suite.

| Microcontroller Family | Microcontroller Unit | Evaluation Board | Compiler ¹⁾ | Patch ²⁾ |
|------------------------|------------------------------|---------------------------------------|--------------------------------------|--------------------------|
| ARM Cortex-M3 | STMicroelectronics STM32F107 | Emerge-Engineering ARM MEDKit | Keil 5.2 | .0 |
| ARM Cortex-M3 | ARM Cortex M3 | Lauterbach Simulator for ARM CortexM3 | Keil 5.2 | .0 |
| Freescale MPC5700VLE | Freescale MPC5748G | Freescale MPC5748GEVB | Green Hills 2023 | .1.4 |
| Freescale MPC5700VLE | Freescale MPC5748G | Freescale MPC5748GEVB | Wind River Diab 5.9 | .0 |
| Freescale S12X | Freescale MC9S12XEP100 | Freescale EVB9S12XEP100 | Cosmic 4.8 | .11 |
| Freescale S12X | Freescale MC9S12XEP100 | Freescale EVB9S12XEP100 | Metrowerks CodeWarrior 5.1 | 5.0.41 build 10203 |
| Infineon c166 | Infineon c167 | I+ME Promotion Package 166 | Altium TASKING C166/ST10 Toolset 8.6 | r1 p3 |

| Microcontroller Family | Microcontroller Unit | Evaluation Board | Compiler ¹⁾ | Patch ²⁾ |
|--------------------------|-------------------------------------|--|--|---------------------|
| Infineon TriCore 1.8 | Infineon TC499 | Infineon TriBoard TriCore 499 | TASKING TASKING SmartCode 10 | r1 |
| Infineon TriCore 1-1.3 | Infineon TC1766 | Infineon TriBoard TriCore 1766 | Altium TASKING TriCore VX-Toolset 3.2 | r1 |
| Infineon TriCore 1-1.3 | Infineon TC1766 | Infineon TriBoard TriCore 1766 20 MHz | Altium TASKING TriCore VX-Toolset 3.2 | r1 |
| Infineon TriCore 1-1.3 | Infineon TC1767 | Infineon TriBoard TriCore 1767 | Altium TASKING TriCore VX-Toolset 3.2 | r1 |
| Infineon TriCore 1-1.3 | Infineon TC1796 | Infineon TriBoard TriCore 1796 | Altium TASKING TriCore VX-Toolset 3.2 | r1 |
| Infineon TriCore 1-1.6 | Infineon TC275 | Infineon TriBoard TriCore 275 | Altium TASKING TriCore VX-Toolset 6.3 | r1 |
| Infineon TriCore 1-1.6 | Infineon TC275 | Infineon TriBoard TriCore 275 | HighTec GNU 4.9 | .2 |
| Infineon TriCore 1-1.6 | Infineon TC275 | Lauterbach Simulator for TriCore 275 | Altium TASKING TriCore VX-Toolset 4.2 | r2 |
| Infineon XC2000 | Infineon XC2287 | Infineon EasyKit XC2287 | Altium TASKING C166/ST10 VX-Toolset 3.0 | r3 |
| Renesas RH850 | Renesas RH850/F1L_R7F7010354 | Renesas YRH850F1L_R7F7010354 | Green Hills 2023 | .1.4 |
| Renesas SH-2 | Renesas SH-2E/SH7058 | Renesas EVB7058 | Renesas 9.3 | .0 |
| Renesas SH-2 | Renesas SH-2A-FPU/SH72513 | Renesas SH72513 System Development Kit | Renesas 9.4 | .0 |
| Renesas V850E2 | Renesas V850E2/Fx4- μ PD70F4012 | Renesas AB_050_Fx4_70F4012 | Green Hills 2021 | .1.5 |
| Texas Instruments TMS570 | Texas Instruments TMS570LC43 | Texas Instruments LAUNCHXL2570LC43 | Texas Instruments Code Composer Studio 7.0 | .3.0 |

¹⁾ Compiler Suite Version Supported

²⁾ Tested with compiler version

Target Simulation Module Extensions

For a full list of all supported evaluation board and compiler combinations, refer to www.dspace.com/go/tlpil. The combinations in the list are free of charge if you have a valid Software Maintenance Service (SMS) contract.

If you do not have a valid SMS contract or are looking for a different combination, contact [dSPACE Support](#) or your sales representative.

All Target Simulation Module Extensions will be delivered as TSM Extension Packages and can be installed via the TargetLink Preferences Editor. For more information on the installation, refer to [How To Install TSM Extension Packages \(TargetLink Customization and Optimization Guide !\[\]\(de95854c7ee024cfadc48187bbb781b2_img.jpg\)](#)).

Target Simulation Module Extensions require the Target Simulation Module.

Changes in the Target Simulation Modules with TargetLink 2023-B

New and discontinued compiler versions

The following table shows changes in the compiler versions that are supported by TargetLink 2023-B:

| Microcontroller Family | Compiler | New Compiler Version | Discontinued Compiler Version |
|------------------------|------------|----------------------|-------------------------------|
| MPC57xxVLE | GreenHills | 2023 | 2022 |
| RH850 | GreenHills | 2023 | 2022 |
| TriCore4xx | SMARTCODE | 10.1 | — |

For a complete list of evaluation boards and compilers that are supported by TargetLink, refer to [Combinations of Evaluation Boards and Compilers \(Evaluation Board Reference !\[\]\(a03a7eb2f4046e1d3c76772003e549ea_img.jpg\)](#)).

Note

For more PIL support combinations that are part of a valid Software Maintenance Service (SMS) contract, refer to the dSPACE [TargetLink PIL Support](#) website at the [TargetLink Product Support Center](#).

