

TRACE32[®] Manuals



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LEADING through Technology

LAUTERBACH
DEVELOPMENT TOOLS 

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Structure and Contents of the Documentation

This chapter describes the structure of the TRACE32 Documentation - printed as well as online.

Since the development of the TRACE32 software is always in progress, the online version of the manuals will always be more up to date than the printed version. The first pages of the printed documentation contains the edition date.

The release history in the online documentation lists always the latest changes in the TRACE32 software. When you get a new version of the TRACE32 software, please always check the [Release history](#) first.

Online Documentation

The most current version of the TRACE32 documentation is always online.

There are several ways to get access to this documentation:

1. If the TRACE32 software is already running you can use the **Help** command in the main menu bar.
2. On the TRACE32 software CD and in your TRACE32 system path you can find a directory `\PDF`. This directory contains the complete TRACE32 documentation in .pdf format.

Open `directory.pdf` to get the table of contents for the complete TRACE32 documentation.

Documentation on how to use the online help can be found in the [Help System](#) documentation.

The documentation is automatically filtered by your currently used hardware configuration. By this filter, the whole documentation is reduced to the relevant part for you. If you want to change the filter, take a look at the command [HELP.FILTER](#).

When using the RTOS/multi task functionality, you have to enable the RTOS documentation:

```
::HELP.FILTER.ADD rtos*           Enable all available RTOS documentation
::HELP.FILTER.ADD rtoslinux      Enable only the documentation for Linux
                                 RTOS Debugger
```

In-Circuit Debugger TRACE32-ICD

TRACE32-ICD includes all debuggers based on an on-chip debug interface (e.g. JTAG, BDM, OCDS ...) as well as ROM monitor solutions. LAUTERBACH provides also a trace extension for most debuggers (TRACE32-ICT).

TRACE32-ICD comes with the booklet "**ICD Introduction**" (icd_introduction.pdf), that provides all information about installing TRACE32-ICD on your host system plus a tutorial that should make you familiar with the main features of TRACE32-ICD.

For more information on the features of TRACE32-ICD refer to the following parts of the online help:

"Target Guides ICD"	This part provides all CPU specific information for your TRACE32-ICD, chiefly how to set up the debugger for your target. Here you will also find all extra features that are supported for your CPU.
"General Reference Guide"	This part provides an alphabetical list of all debugger commands. All commands that are not available for TRACE32-ICD are marked with (E) - TRACE32-ICE only or (F) -TRACE32-FIRE only.
"TRACE32 Online Help" (main.pdf)	All TRACE32 development tools share the common user interface TRACE32-PowerView. This part describes the basic functions of the user interface (command structure, online help, editing and managing files, printer operations etc.)
"IDE Reference Guide" (ide_ref.pdf)	This part provides an alphabetical list of all operating system commands.
"PRACTICE Script Language User's Guide" (practice_user.pdf)	The TRACE32 batch language PRACTICE is mainly used to perform automatic setups, to automate test sequences or to store the system settings for later recall. This part describes the basic structure and features of the PRACTICE programming language.
"PRACTICE Script Language Reference Guide" (practice_ref.pdf)	This part provides an alphabetical list of all PRACTICE instructions.
"ICD Extensions"	Refer to this part, if you want to use the TPU debugger or the PCP debugger.
"RTOS Debuggers"	Refer to this part if you want to use the TRACE32-Multitask Debugger. Use the command HELP.FILTER.ADD rtos* to see all RTOS documentation.
"Front-end"	Refer to this part, if you want to run TRACE32-ICD from a 3rd party user interface.
"TRACE32 Installation Guide" (installation.pdf)	This part is the general Installation Guide for all TRACE32 development tools.

TRACE32-ICE comes with 4 binders which provide documentation support for all its capabilities.

TRACE32-ICE is divided into two major functional units: the emulator and the analyzer.

- The emulator-part of TRACE32-ICE is responsible for carrying out debugging functions, for managing breakpoints, for displaying memory and high-level-language structures and for code coverage.
- The analyzer-part of TRACE32-ICE is responsible for displaying and managing the trace buffer, for programming the analyzer trigger unit to perform selective tracing and to carry out complex trigger sequences, for statistic functions and performance analyses.

The following list will give you an idea of the contents of each manual.

"ICE User's Guide" (ice_user.pdf)	This parts makes you familiar with the concept and the main features of the emulator-part of TRACE32-ICE.
"ICE Targets"	This part provides all CPU specific information for your TRACE32-ICE, chiefly how to set up TRACE32-ICE for your target. Here you will also find all extra features that are supported for your CPU.
"General Reference Guide"	This part provides an alphabetical list of all commands for the emulator-part of TRACE32-ICE. All commands that are not available for TRACE32-ICE are marked with (B) - TRACE32-ICD only or (F) -TRACE32-FIRE only.
"Analyzer User's Guide" (analyzer_user.pdf)	This part makes you familiar with the concept and the main features of the analyzer-part of TRACE32-ICE.
"Analyzer Trigger Unit Programming Guide" (analyzer_prog.pdf)	This part makes you familiar with the concept of the trigger programming language. It contains examples for trigger programs and alphabetical lists of all actions and input events.
"TRACE32 Online Help" (main.pdf)	All TRACE32 development tools share the common user interface TRACE32-PowerView. This part describes the basic functions of the user interface (command structure, online help, editing and managing files, printer operations etc.).
"IDE Reference Guide" (ide_ref.pdf)	This part provides an alphabetical list of all operating system commands.
"PRACTICE Script Language User's Guide" (practice_user.pdf)	The TRACE32 batch language PRACTICE is mainly used to perform automatic setups, to automate test sequences or to store the system settings for later recall. This part describes the basic structure and features of the PRACTICE programming language.
"PRACTICE Script Language Reference Guide" (practice_ref.pdf)	This part provides an alphabetical list of all PRACTICE instructions.

<p>"ICD Extensions"</p>	<p>Refer to this part, if you want to use the TPU debugger.</p>
<p>"RTOS Debuggers"</p>	<p>Refer to this part if you want to use the TRACE32-Multitask Debugger. Use the command HELP.FILTER.ADD rtos* to see all RTOS documentation.</p>
<p>"Front-end"</p>	<p>Refer to this part, if you want to run TRACE32-ICE from a 3rd party user interface.</p>
<p>"TRACE32 Installation Guide" (installation.pdf)</p>	<p>This part is the general Installation Guide for all TRACE32 development tools.</p>
<p>"ICE Port Analyzer User's Guide" (port_user.pdf)</p>	<p>Your TRACE32-ICE can be enhanced by a port analyzer to trace additional CPU lines. A description of the Port Analyzer and its features is provided in the "ICE Port Analyzer User's Guide" (port_user.pdf).</p>
<p>"Timing Analyzer"</p>	<p>The Timing Analyzer provides timing and state analysis, a pattern generator and a serial line tester. A description of the Timing Analyzer and its features is provided in the "Timing Analyzer User's Guide" (time_user.pdf), the "Timing Analyzer Reference Guide" (time_ref.pdf) and the "Timing Analyzer Trigger Unit Programming Guide" (time_prog.pdf).</p>

Fully Integrated RISC Emulator TRACE32-FIRE

TRACE32-FIRE comes with 4 binders which provide documentation support for all its capabilities.

The following list will give you an idea of the contents of each manual.

"FIRE User's Guide" (fire_user.pdf)	This part makes you familiar with the concept and the main features of TRACE32-FIRE.
"FIRE Targets"	This part provides all CPU specific information for your TRACE32-FIRE, chiefly how to set up TRACE32-FIRE for your target. Here you will also find all extra features that are supported for your CPU.
"General Reference Guide"	This part provides an alphabetical list of all commands for debugging and trace with TRACE32-FIRE. All commands that are not available for TRACE32-FIRE are marked with (B) - TRACE32-ICD only or (E) - TRACE32-ICE only.
"Analyzer Trigger Unit Programming Guide" (analyzer_prog.pdf)	This part makes you familiar with the concept of the trigger programming language. It contains examples for trigger programs and alphabetical lists of all actions and input events.
"TRACE32 Online Help" (main.pdf)	All TRACE32 development tools share the common user interface TRACE32-PowerView. This part describes the basic functions of the user interface (command structure, online help, editing and managing files, printer operations etc.).
"IDE Reference Guide" (ide_ref.pdf)	This part provides an alphabetical list of all operating system commands.
"PRACTICE Script Language User's Guide" (practice_user.pdf)	The TRACE32 batch language PRACTICE is mainly used to perform automatic setups, to automate test sequences or to store the system settings for later recall. This part describes the basic structure and features of the PRACTICE programming language.
"PRACTICE Script Language Reference Guide" (practice_ref.pdf)	This part provides an alphabetical list of all PRACTICE instructions.
"ICD Extensions"	Refer to this part, if you want to use the TPU debugger and PCP debugger.
"RTOS Debuggers"	Refer to this part if you want to use the TRACE32-Multitask Debugger. Use the command HELP.FILTER.ADD rtos* to see all RTOS documentation.
"Front-end"	Refer to this part, if you want to run TRACE32-FIRE from a 3rd party user interface.

"TRACE32 Installation Guide" (installation.pdf)	This part is the general Installation Guide for all TRACE32 development tools.
"FIRE Port Analyzer User's Guide" (fireport_user.pdf)	Your TRACE32-FIRE can be enhanced by a port analyzer to trace additional CPU lines. A description of the Port Analyzer and its features is provided in the "FIRE Port Analyzer User's Guide" (fireport_user.pdf).

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ICD Tutorial	(icd_tutorial.pdf)
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PRACTICE Script Language Reference Guide	(practice_ref.pdf)
Application Notes for PRACTICE	
Converter from GEL to PRACTICE	(converter_gel.pdf)
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General Commands Reference Guide B	(general_ref_b.pdf)
General Commands Reference Guide C	(general_ref_c.pdf)
General Commands Reference Guide D	(general_ref_d.pdf)
General Commands Reference Guide E	(general_ref_e.pdf)
General Commands Reference Guide F.....	(general_ref_f.pdf)
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FLASH Programming

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RTOS Debugger for CMX.....	(rtos_cmx.pdf)
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RTOS Debugger for DSP/BIOS.....	(rtos_bios.pdf)
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RTOS Debugger for pSOS+	(rtos_psos.pdf)
RTOS Debugger for PXROS	(rtos_pxros.pdf)
RTOS Debugger for QNX - Run Mode	(rtos_qnx_run.pdf)
RTOS Debugger for QNX - Stop Mode	(rtos_qnx_stop.pdf)
RTOS Debugger for RealTimeCraft	(rtos_realtimcraft.pdf)
RTOS Debugger for RTEMS	(rtos_rtems.pdf)
RTOS Debugger for RTOS/7700	(rtos_rt7700.pdf)
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Front-end

GDB Monitor

[TRACE32 GDB Front-end for 386/486 \(monitor_gdb_i386.pdf\)](#)

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