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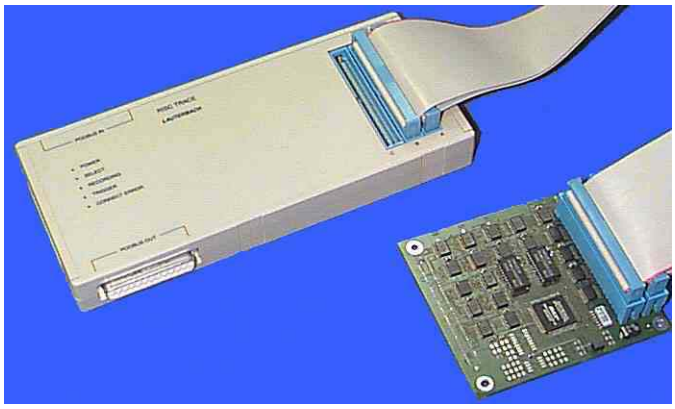
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TRACE32®

Technical Information

Real-time Trace



Real-time Trace

- Trace extension for TRACE32-ICD
- Bus and program flow trace
- 96 channels
- max. frequency CPU specific
- 64K/128K/256K/512K frame trace depth
- 36 bit time stamp, 25 ns resolution

The universal RISC Trace Module provides the trace memory for the TRACE32-ICD trace extension. It works together with a CPU specific preprocessor. The preprocessor collect the trace data from the target and transfers into the trace memory of the RISC Trace Module.

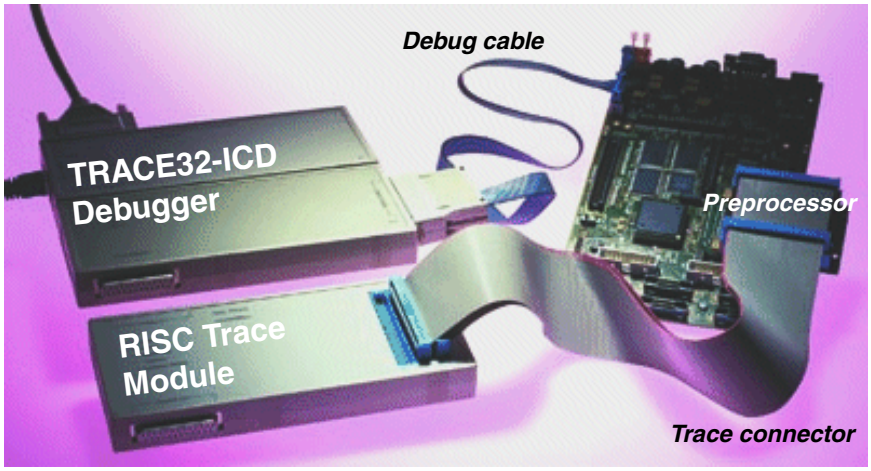
LAUTERBACH DEVELOPMENT TOOLS

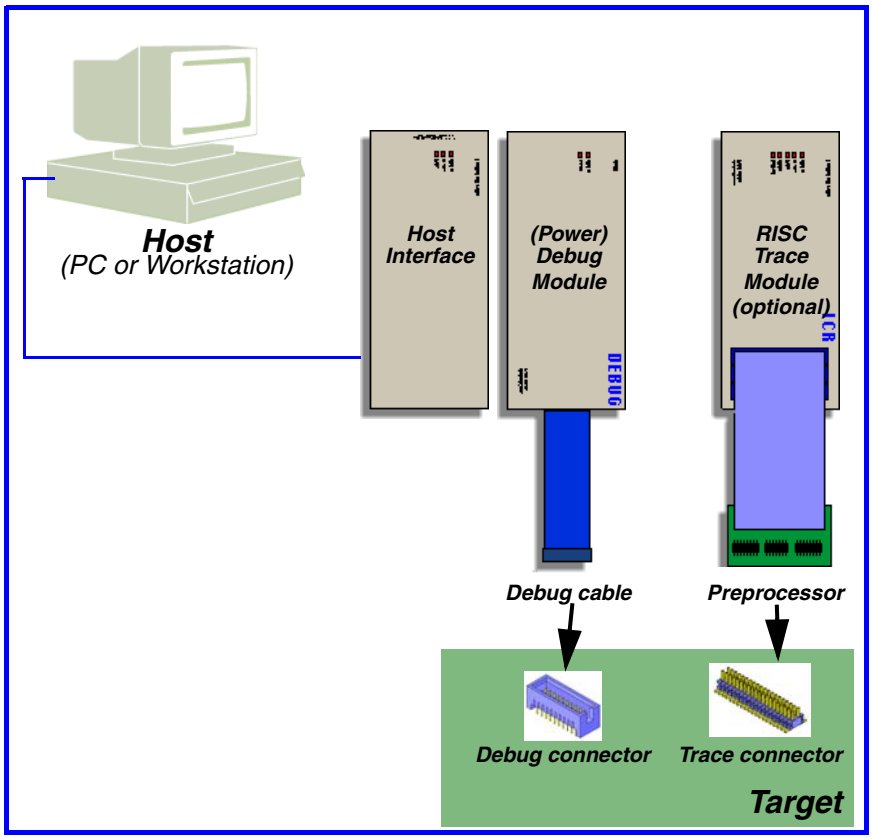
Hardware Concept

RISC Trace Module

Most TRACE32-ICD debugger can be extended by a trace extension. Such a trace extension allows to sample the program/data flow.

The RISC Trace Module provides the trace memory in this configuration. It works together with a CPU specific preprocessor. The preprocessor collects the trace data from the trace connector on the target and transfers it into the trace memory of the RISC Trace Module.

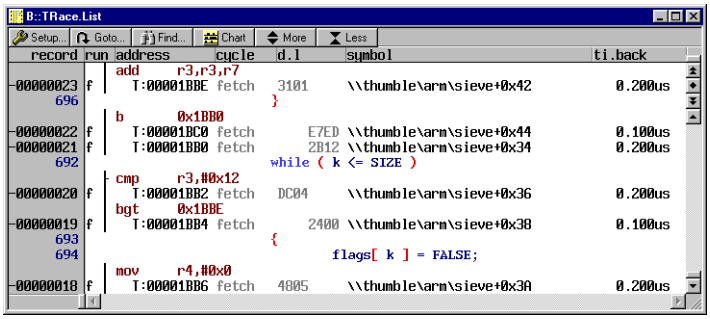



Host
(PC or Workstation)
Host Interface
(Power) Debug Module
DEBUG
RISC Trace Module (optional)
ICR
Debug cable
Preprocessor
Debug connector
Trace connector
Target

Software Concept

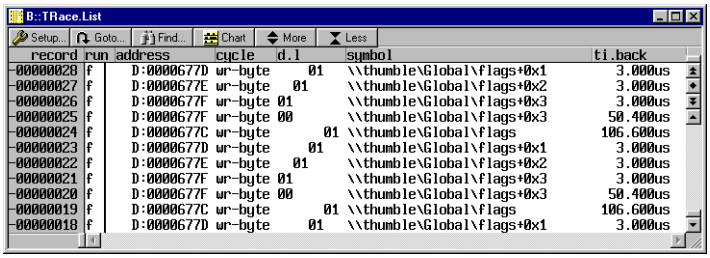
Bus Trace

The trace extension of TRACE32-ICD works as a bus trace for some CPUs. For a bus trace the address and data bus and certain state lines are recorded for every bus cycle. As a result the complete information about the program and data flow is available.



Selective Tracing

The trace extension for TRACE32-ICD provides some basic features for selective tracing.

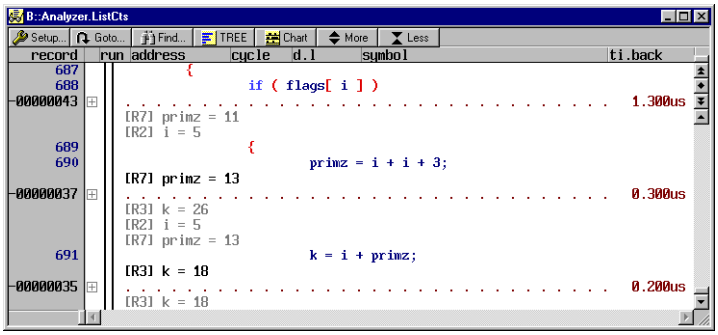


HLL Trace

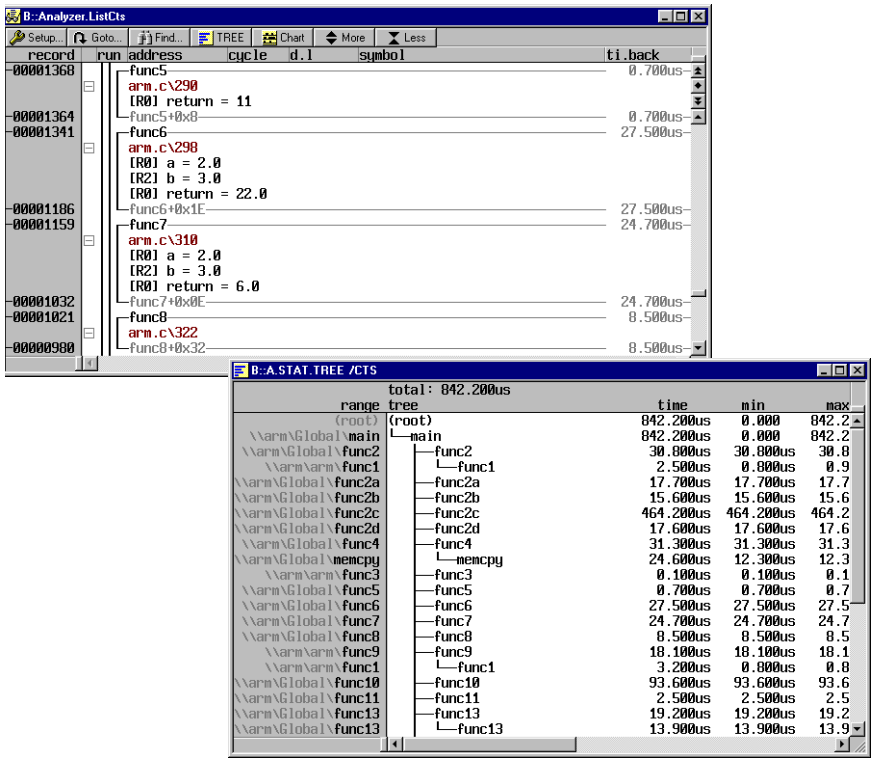
The context tracking system (CTS) makes it possible to show also register and stack variables in the trace display.

For each high-level language step sampled in the trace buffer, the developer receives:

- ❏ the current values of the variable used
- ❏ the result of the program step
- ❏ the exact time needed



CTS can also be used for a detailed function nesting analysis over the whole trace memory. Function parameters, return values, and function run time are indicated for each function. This analysis can also be carried out graphically in the form of a call tree.



Program Flow Trace

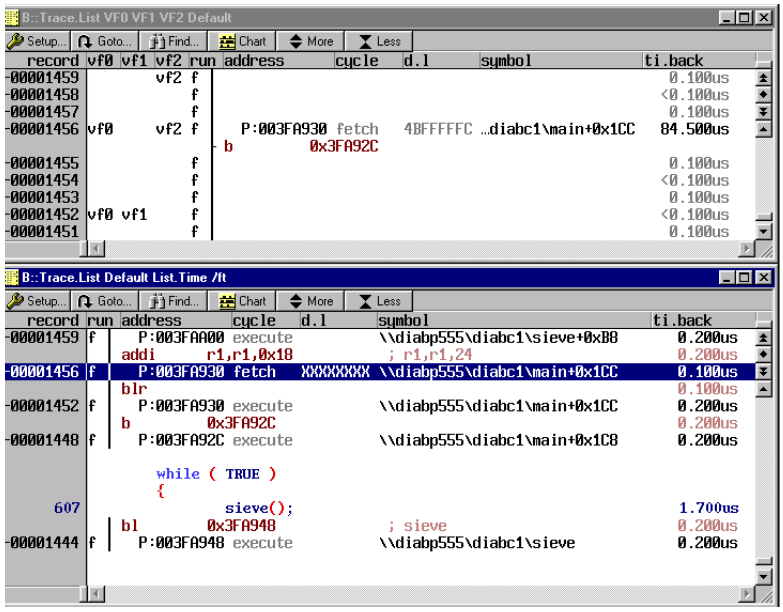
The trace extension of TRACE32-ICD works as a program flow trace for most CPUs.

Due to high speeds most CPUs don't provide full visibility of the internal program and data flow. They are equipped with a so-called trace port (special pins of the CPU). Through this trace port reduced information about the internal program run are output. This reduced information comprises program status information, branch destination addresses of direct/indirect branches and on some CPUs reduced data flow information.

TRACE32-ICD sample this information for each clock and processes the data to offer the developer full information about the program/data flow.

Since most trace ports are relatively small (4 to 8 pins) the RISC Trace Module can sample up to 4 cycles at once by multiplexing. In consequence of this the number of records in the trace is 4 * trace size. Moreover the max. supported CPU frequence can be up to 4 times higher. For more information on your CPU refer to the CPU specific description of the TRACE32-ICD trace extension.

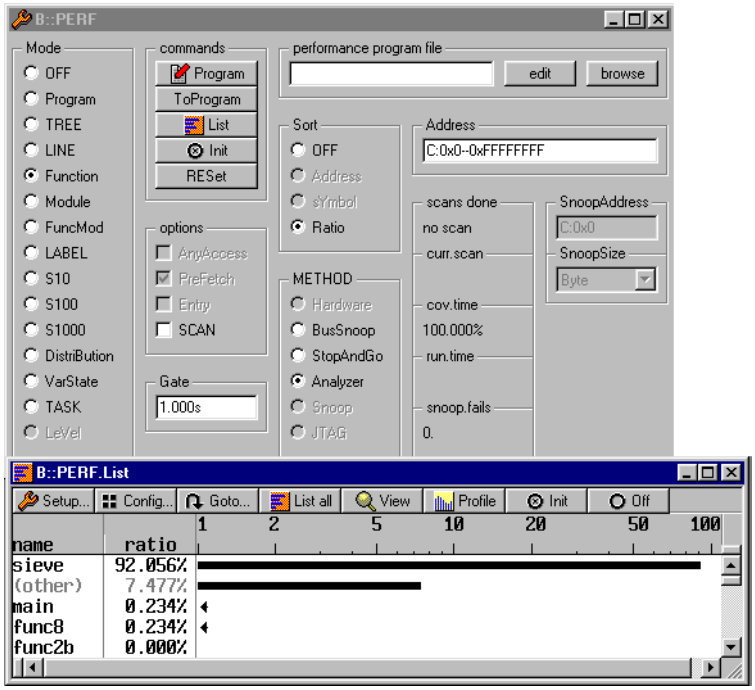
Sampled information



Reconstructed program and data flow

Trace based Performance Analysis

The performance measurement used by TRACE32-ICD is a statistical process. To determine for example which function or which module uses the greatest proportion of the total runtime the recording into the trace memory is stopped briefly to determine the current program counter contents. This measurement has absolutely no influence on the real-time behaviour.



Operation Voltage

Adapter	Code	OrderNo	Voltage Range
Preprocessor for ColdFire family HS	PP-COLDFIRE-HS	LA-3759	3.0 .. 5.5 V
Preprocessor for ST40 (AUD)	PP-ST40	LA-3800	3.0 .. 3.6 V
Preprocessor for NIOS-II Flex Cable	PP-NIOSII	LA-3801	1.5 .. 5.0 V
Preproc. for PPC4XX AUTOFOCUS II Flex	PP-PPC4XX-AF-2	LA-3900	1.8 .. 3.3 V
Trace License for PPC4XX AUTOFOCUS II	PP-PPC4XX-AF-2-ADD	LA-3900A	1.8 .. 3.3 V
Preproc. for MICROBLAZE AUTOFOCUS II Flex	PP-MICROBLAZE-AF-2	LA-3901	1.8 .. 3.3 V
Trace License for MicroBlaze AUTOFOCUS II	PP-MICROBLA-AF-2-ADD	LA-3901A	1.8 .. 3.3 V
Preproc. for SHx (AUD) AUTOFOCUS II FLEX	PP-SHX-AF-2	LA-3902	1.8 .. 3.3 V
Trace License for SH2A, SH4, SH4A in AF II	PP-SHX-AF-2-ADD	LA-3902A	1.8 .. 3.3 V
Preproc. for TMS320C64x+ AUTOFOCUS II Flex	PP-C64XP-AF-2	LA-3903	1.8 .. 3.3 V
Trace License for TMS320C64x+ in AUTOFOCUS II	PP-C64XP-AF-2-ADD	LA-3903A	1.8 .. 3.3 V
Preproc. for TEAKLITE-III AUTOFOCUS II Flex	PP-TEAKLITE3-AF-2	LA-3904	1.8 .. 3.3 V
Trace License for TEAKLITE-III AUTOFOCUS II	PP-TEAKLITE3-AF-2-AD	LA-3904A	1.8 .. 3.3 V
Preproc. for RAM Trace Port AUTOFOCUS II Flex	PP-RTP-AF-2	LA-3905	1.8 .. 3.3 V
Trace License for RAM Trace Port AUTOFOCUS II	PP-RTP-AF-2-AD	LA-3905A	1.8 .. 3.3 V
Preproc. for MIPS32 AUTOFOCUS 600 MIPI	PP-MIPS32-AF-2	LA-3906	1.8 .. 3.3 V
Preproc. for Beyond AUTOFOCUS II Flex	PP-BEYOND-AF-2	LA-3908	1.8 .. 3.3 V
Nexus Adapter for Argon+	NEXUS-ARGON+	LA-7606	2.6 .. 3.3 V
Preprocessor for MPC500/800 Family Data V2	PP-MPC500/800-V2	LA-7856	2.5 .. 5.0 V
Preprocessor for complete EGOLD family	PP-EGOLD+V3	LA-7857	1.8 .. 3.3 V
Preprocessor for MPC500/800 Family (center)	PP-MPC500/800-C	LA-7871	3.0 .. 3.6 V
Preprocessor for MPC500/800 Family (edge)	PP-MPC500/800-E	LA-7877	3.0 .. 3.6 V

Adapter	Code	OrderNo	Voltage Range
Preprocessor TriCore OCDS-L2 5V Samtec 60	PP-TRICORE-5V	LA-7879	3.0 .. 5.5 V
Preprocessor for C166 family	PP-C166-FAMILY	LA-7880	3.0 .. 5.5 V
Preprocessor for EGOLD family	PP-EGOLD	LA-7881	3.0 .. 5.5 V
Preprocessor for MPC500/800 Family Data	PP-MPC500/800-D	LA-7883	2.5 .. 5.0 V
Preprocessor for MPC860 and MPC821 TCON	PP-MPC860-TC	LA-7884	2.5 .. 5.0 V
Preprocessor for MPC850 and MPC823-TCON	PP-MPC850-TC	LA-7885	2.5 .. 5.0 V
Preprocessor for MPC555 TCON	PP-MPC555-TC	LA-7886	2.5 .. 5.0 V
Preprocessor for ARM-ETM 120	PP-ARM-ETM/120	LA-7889	2.5 .. 3.6 V
Preprocessor for EGOLD+ family	PP-EGOLD+	LA-7893	2.2 .. 5.5 V
Preprocessor for MIPS flex cable	PP-MIPS	LA-7894	0.9 .. 3.3 V
Preprocessor for SH4 and RX (AUD)	PP-SH3/4	LA-7898	3.0 .. 3.6 V
Preprocessor for MPC880 and MPC885 TCON	PP-MPC880-TC	LA-7905	2.5 .. 5.0 V
Converter AMP 40 to Samtec 60	ICD-TC-CON-40/60	LA-7919	3.0 .. 5.5 V
Preprocessor for ARM-ETM 200 flex cable	PP-ARM-ETM/200	LA-7921	0.9 .. 3.3 V
Preprocessor for ETM 2-MICTOR 2 flex cables	PP-ARM-ETM-TWO	LA-7923	2.5 .. 3.6 V
Preprocessor TriCore OCDS-L2 3.3V Samtec 60	PP-TRICORE-3.3V	LA-7928	1.8 .. 3.3 V
Preprocessor for PPC4xx family fast flex	PP-PPC4XX-F	LA-7929	0.9 .. 3.6 V
Preprocessor for ST40 8 Bit Data (AUD)	PP-ST40/8-BIT-DATA	LA-7934	3.0 .. 3.6 V
Preprocessor for V850-Flex Cable	PP-TRACE-V850	LA-7935	1.8 .. 5.5 V
Preprocessor for VR-Flex	PP-TRACE-VR	LA-7942	1.8 .. 5.5 V
Trace License for QorIQ	TRACE-LICENSE-QORIQ	LA-7967X	0.9 .. 3.3 V
Trace License Qorivva MPC57xx and SPC57xx	TRACE-LICENSE-MPC57X	LA-7968X	0.9 .. 3.3 V
Trace License for TEAKLITE-III	TRACE-LICENSE-TEAK3	LA-7969X	0.9 .. 3.3 V
Trace License for ARM (Debug Cable)	TRACE-LICENSE-ARM	LA-7970X	0.9 .. 3.3 V
Trace License for the MIPS32	TRACE-LICENSE-MIPS32	LA-7971X	0.9 .. 3.3 V
JTAG Onchip Trace Support for SH2A	SH2A-OC-TRACE	LA-7973X	0.9 .. 3.3 V

Adapter	Code	OrderNo	Voltage Range
Trace License for TMS320C55X	TRACE-LICENSE-C55X	LA-7976X	0.9 .. 3.3 V
Trace License for Ceva-X	TRACE-LICENSE-CEVAX	LA-7977X	0.9 .. 3.3 V
Trace License for TMS320C6x00	TRACE-LICENSE-C6X00	LA-7979X	0.9 .. 3.3 V
Preprocessor for ARM-ETM with AUTOFOCUS Flex	PP-ARM-ETM-AF	LA-7991	1.8 .. 3.3 V
Preproc. for ARM-ETM/ AUTOFOCUS II 600 Flex	PP-ARM-ETM-AF-2	LA-7992	1.8 .. 3.3 V
Trace License for ARM-ETM AUTOFOCUS II	PP-ARM-ETM-AF-2-ADD	LA-7992A	1.8 .. 3.3 V
Preproc. for ARM-ETM/ AUTOFOCUS 600 MIPI	PP-ARM-ETM-AF-MIPI	LA-7993	1.8 .. 3.3 V
Preproc. for TMS320C55x AUTOFOCUS II Flex	PP-C55X-AF-2	LA-7995	1.8 .. 3.3 V
Trace License for TMS320C55x AUTOFOCUS II	PP-C55X-AF-2-ADD	LA-7995A	1.8 .. 3.3 V
Preproc. for Ceva-X AUTOFOCUS II Flex	PP-CEVA-AF-2	LA-7996	1.8 .. 3.3 V
Trace License for Ceva-X AUTOFOCUS II	PP-CEVA-AF-2-ADD	LA-7996A	1.8 .. 3.3 V
Preproc. for STARCORE AUTOFOCUS II Flex	PP-STARCORE-AF-2	LA-7999	1.8 .. 3.3 V
Trace License for StarCore AUTOFOCUS II	PP-STARCORE-AF-2-ADD	LA-7999A	1.8 .. 3.3 V
Preprocessor for MPC561/ MPC563 TCON320	PP-MPC561-TC	LA-9662	2.6 .. 5.5 V

Order Information

Module Description

OrderNo Code	Text
LA-7859 ICD-TRACE-RISC-64K	**ICD Trace Module for RISC 100MHz/64K** Real Time Trace for High-Speed RISC processors and DSP, includes 96 trace channels at 100 MHz, 36 bit time stamp with 25 ns resolution 64K Trace Depth
LA-7860 ICD-TRACE-RISC-128K	**ICD Trace Module for RISC 100MHz/128K** Real Time Trace for High-Speed RISC processors and DSP, includes 96 trace channels at 100 MHz, 36 bit time stamp with 25 ns resolution, 128K Trace Depth
LA-7861 ICD-TRACE-RISC-256K	**ICD Trace Module for RISC 100MHz/256K** Real Time Trace for High-Speed RISC processors and DSP, includes 96 trace channels at 100 MHz, 36 bit time stamp with 25 ns resolution, 256K Trace Depth
LA-7862 ICD-TRACE-RISC-512K	**ICD Trace Module for RISC 100MHz/512K** Real Time Trace for High-Speed RISC processors and DSP, includes 96 trace channels at 100 MHz, 36 bit time stamp with 25 ns resolution, 512K Trace Depth

Detailed Order Information

Order No.	Code	Text
LA-7859	**ICD-TRACE-RISC-64K**	**ICD Trace Module for RISC 100MHz/64K**
LA-7860	**ICD-TRACE-RISC-128K**	**ICD Trace Module for RISC 100MHz/128K**
LA-7861	**ICD-TRACE-RISC-256K**	**ICD Trace Module for RISC 100MHz/256K**
LA-7862	**ICD-TRACE-RISC-512K**	**ICD Trace Module for RISC 100MHz/512K**
Additional Options		

Order No.	Code	Text
LA-7871	PP-MPC500/800-C	Preprocessor for MPC500/800 Family (center)
LA-7877	PP-MPC500/800-E	Preprocessor for MPC500/800 Family (edge)

Contact

International Representative

Argentina
Anacom Eletronica Ltda.
Mr. Rafael Sorice
Rua Nazareth, 807, Barcelona
BR-09551-200 São Caetano do Sul, SP
Phone: +55 11 3422 4200
FAX: +55 11 3422 4242
EMAIL: rsorice@anacom.com.br

Australia
Embedded Logic Solutions P/L
Mr. Ramzi Kattan
Suite 2, Level 3
144 Marsden Street
Parramatta NSW 2150
Phone: +61 2 9687 1880
FAX: +61 2 9687 1881
EMAIL: sales@emlogic.com.au

Austria
Lauterbach GmbH
Altlaufstr. 40
D-85635 Höhenkirchen-Siegertsbrunn
Phone: +49 8102 9876 0
FAX: +49 8102 9876 999
EMAIL: info@lauterbach.com

Belgium
Tritec Benelux B.V.
Mr. Robbert de Voogt
Stationspark 550
NL-3364 DA Sliedrecht
Phone: +31 184 41 41 31
FAX: +31 184 42 36 11
EMAIL: software@tritec.nl

Brazil
Anacom Eletronica Ltda.
Mr. Rafael Sorice
Rua Nazareth, 807, Barcelona
BR-09551-200 São Caetano do Sul, SP
Phone: +55 11 3422 4200
FAX: +55 11 3422 4242
EMAIL: rsorice@anacom.com.br

Canada
Lauterbach Inc.
Mr. Udo Zoettler
4 Mount Royal Ave.
USA-Marlborough, MA 01752
Phone: +1 508 303 6812
FAX: +1 508 303 6813
EMAIL: info_us@lauterbach.com

China Beijing
Lauterbach Technologies Co., Ltd
Mr. Linglin He
Beijing Office
A3,South Lishi Road, XiCheng District
Beijing 100037, P.R. China
Phone: +86 10 68023502
FAX: +86 10 68023523
EMAIL: linglin.he@lauterbach.com

China Shenzhen
Lauterbach Technologies Co., Ltd
1406/E Xihaimingzhu Building
No.1 Taoyuan Road, Nanshan District
Shenzhen 518052, P.R. China
Phone: +86 755 8621 0671
FAX: +86 755 8621 0675
EMAIL: emily.zhang@lauterbach.com

China Suzhou
Lauterbach Technologies Co., Ltd
Mr. Tom Meyer
Hengyu Square, Rm 709
No. 188, Xing Hai Street
Suzhou, 215021 P.R. of China
Phone: +86 512 6265 8030
FAX: +86 512 6265 8032
EMAIL: info_cn@lauterbach.com

Denmark
Nohau Danmark A/S
Mr. Flemming Jensen
Klausdalsbrovej 493
DK-2730 Herlev
Phone: +45 44 52 16 50
FAX: +45 44 52 26 55
EMAIL: info@nohau.dk

Egypt
Wantech Egypt
Mr. Wagih A. Nawara
5 Shafik Ghalie St., Suite 2
Off Pyramids Road, Giza
Cairo 12111
Phone: +20 100 1251955
FAX: +20 100 1250349
EMAIL: sales@wantechnet.com

Finland
Nohau Solutions Finland
Mr. Leevi Lehtinen
Teknobulevardi 3-5
FI-01531 Vantaa
Phone: +358 40 546 1469
FAX: +358 9 2517 8101
EMAIL: sales@nohau.fi

France
Lauterbach S.A.R.L.
Mr. Jean-Pierre Paradiso
Europarc - Le Hameau B
135 Chemin Des Bassins
F-94035 Créteil Cedex
Phone: +33 1 49 56 20 30
FAX: +33 1 49 56 20 39
EMAIL: info_fr@lauterbach.com

Germany
Lauterbach GmbH
Altlaufstr. 40
D-85635 Höhenkirchen-Siegertsbrunn
Phone: +49 8102 9876 0
FAX: +49 8102 9876 999
EMAIL: info@lauterbach.com

Germany North
Lauterbach GmbH
Mr. Klaus Hommann
Leonhardring 5
D-31319 Sehnde
Phone: +49 5138 6185 0
FAX: +49 5138 6185 3
EMAIL: klaus.hommann@lauterbach.com

Germany South
Lauterbach GmbH
Altlaufstr. 40
D-85635 Höhenkirchen-Siegertsbrunn
Phone: +49 8102 9876 129
FAX: +49 8102 9876 187
EMAIL: sales@lauterbach.com

Greek
Lauterbach GmbH
Altlaufstr. 40
D-85635 Höhenkirchen-Siegertsbrunn
Phone: +49 8102 9876 0
FAX: +49 8102 9876 999
EMAIL: info@lauterbach.com

India-Bangalore

Electro Systems Associates Pvt. Ltd.
Mr. G. V. Gurunatham
S-606, World Trade Center
Malleswaram West, No.26/1, Dr. Rajkumar Road
India - Bangalore 560055
Phone: +91 80 67648888
FAX: +91 80 23475615
EMAIL: Trace32sales@esaindia.com

India-Chennai

Electro Systems Associates Pvt. Ltd.
Mr. D. Kannan
No.109 /59A , Ground Floor
IV Avenue, Ashok Nagar
India - Chennai - 600 083 Tamilnadu
Phone: +91 044-24715750
FAX: ++91 44 24715750
EMAIL: chennai@esaindia.com

India-Delhi

Electro Systems Associates Pvt. Ltd.
Mr. R.K. Bhandari
No. 705, 7th Floor, Laxmi Deep
Shivajinagar
India - Delhi - 110 092
Phone: +91 11-22549351
FAX:
EMAIL: delhi@esaindia.com

India-Hyderabad

Electro Systems Associates Pvt. Ltd.
Mr. C.V.M. Sri Ram Murthy
Shop No. 14, "Global Enclave"
Bhagyanagar Colony, Kukat pally
India - Hyderabad 500 072
Phone: +91 40-23063346
FAX: +91 40-23063346
EMAIL: hyderabad@esaindia.com

India-Pune

Electro Systems Associates Pvt. Ltd.
Mr. R K Bhandari
Shriram Complex,1126/1, Model Colony
Shivajinagar
India - Pune - 411 016
Phone: +91 20 - 30462035 / 25663
FAX: +91 20-25677202
EMAIL: pune@esaindia.com

Ireland

Lauterbach Ltd.
Mr. Barry Lock
11 Basepoint Enterprise Centre
Stroudley Road
Basingstoke, Hants RG24 8UP
Phone: +44-1256-333-690
FAX: +44-1256-336-661
EMAIL: info_uk@lauterbach.com

Israel

Itec Ltd.
Mr. Mauri Gottlieb
P.O.Box 10002
IL-Tel Aviv 61100
Phone: +972 3 6491202
FAX: +972 3 6497661
EMAIL: general@itec.co.il

Italy

Lauterbach Srl
Mr. Maurizio Menegotto
Via Enzo Ferrieri 12
I-20153 Milano
Phone: +39 02 45490282
FAX: +39 02 45490428
EMAIL: info_it@lauterbach.com

Japan

Lauterbach Japan, Ltd.
Mr. Kenji Furukawa
3-8-8 Shinyokohama
Kouhoku-ku
Yokohama-shi, Japan 222-0033
Phone: +81 45 477 4511
FAX: +81 45 477 4519
EMAIL: info@lauterbach.co.jp

Luxemburg

Tritec Benelux B.V.
Mr. Robbert de Voogt
Stationspark 550
NL-3364 DA Sliedrecht
Phone: +31 184 41 41 31
FAX: +31 184 42 36 11
EMAIL: software@tritec.nl

Malaysia

Flash Technology
Mr. Teo Kian Hock
No 61, # 04-15 Kaki Bukit Av 1
Shun Li Industrial Park
SGP-Singapore 417943
Phone: +65 6749 6168
FAX: +65 6749 6138
EMAIL: teokh@flashtech.com.sg

Mexico

Lauterbach Inc.
Mr. Udo Zoettler
4 Mount Royal Ave.
USA-Marlborough, MA 01752
Phone: +1 508 303 6812
FAX: +1 508 303 6813
EMAIL: info_us@lauterbach.com

Netherlands

Tritec Benelux B.V.
Mr. Robbert de Voogt
Stationspark 550
NL-3364 DA Sliedrecht
Phone: +31 184 41 41 31
FAX: +31 184 42 36 11
EMAIL: software@tritec.nl

New Zealand

Embedded Logic Solutions P/L
Mr. Ramzi Kattan
Suite 2, Level 3
144 Marsden Street
Parramatta NSW 2150
Phone: +61 2 9687 1880
FAX: +61 2 9687 1881
EMAIL: sales@emlogic.com.au

Norway

Nohau Solutions AB
Mr. Jörgen Nilsson
Derbyvägen 4
SE-21235 Malmoe
Phone: +46 40 592 206
FAX: +46-40 592 229
EMAIL: sales@nohau.se

Poland

QUANTUM Sp. z o.o.
Mr. Czeslaw Bil
ul. Wystawowa 1
51-618 Wroclaw
Phone: +48 71 362 6356
FAX: +48 71 362 6357
EMAIL: info@quantum.com.pl

Portugal

Captura Electronica,SCCL
Mr. Juan Martinez
c/Duero, 40
E-08031 Barcelona
Phone: +34 93 429 5730
FAX: +34 93 407 0778
EMAIL: info@captura-el.com

Romania

Lauterbach GmbH
Altlaufstr. 40
D-85635 Höhenkirchen-Siegertsbrunn
Phone: +49 8102 9876 0
FAX: +49 8102 9876 999
EMAIL: info@lauterbach.com

Russia

RTSoft
Mr. Alexey Isaev
Nikitinskaya 3
RUS-105037 Moscow
Phone: +7 495 742 6828
FAX: +7 495 742 6829
EMAIL: sales@rtsoft.msk.ru

Singapore

Flash Technology
Mr. Teo Kian Hock
No 61, # 04-15 Kaki Bukit Av 1
Shun Li Industrial Park
SGP-Singapore 417943
Phone: +65 6749 6168
FAX: +65 6749 6138
EMAIL: teokh@flashtech.com.sg

South Korea, Pangyo

MDS Technology Co.,Ltd.
Mr. Sangheon Lee
3FL. Hancom Tower
49, Daewangpangyo-ro 644, Bundang-gu
Seongnam-si, Gyeonggi-do, 463-400, ROK
Phone: +82-31-627-3000
FAX: +82-31-627-3100
EMAIL: trace32@mdstec.com

Spain

Captura Electronica,SCCL
Mr. Juan Martinez
c/Duero, 40
E-08031 Barcelona
Phone: +34 93 429 5730
FAX: +34 93 407 0778
EMAIL: info@captura-el.com

Sweden

Nohau Solutions AB
Mr. Jörgen Nilsson
Derbyvägen 4
SE-21235 Malmoe
Phone: +46 40 592 206
FAX: +46 40 592 229
EMAIL: sales@nohau.se

Switzerland

JDT Jberg DatenTechnik
Mr. Andreas Jberg
Zimmereistrasse 2
CH-5734 Reinach AG
Phone: +41 62 7710 886
FAX:
EMAIL: Andreas.Jberg@jdt.ch

Taiwan

Superlink Technology Corp.
Mr. Sulin Huang
3F-8,No.77,Shin-Tai-Wu Rd.Sec1
Taipei Hsien 221, Taiwan, R.O.C.
Phone: +886 2 26983456
FAX: +886 2 26983535
EMAIL: info.stc@superlink.com.tw

Tunesia

Lauterbach Consulting S.A.R.L.
Mr. Khaled Jmal

Phone:
FAX:
EMAIL: info_tn@lauterbach.com

Turkey-1

Tektronik Muh. ve Tic. Ltd.
Mr. Hakan Yavuz
Mahatma Gandhi Cad 68A/2
G.O.Pasa
06700 Ankara
Phone: +90 312 437 3000
FAX: +90 312 437 1616
EMAIL: info@tektronik.com.tr

Turkey-2

G3TEK Embedded Technologies Ltd.
Mr. Celal Aygun
Ilkyerlesim Mah. 445.
Sok. No: 48
06370 Batikent/Ankara
Phone: +90 312 3324769
FAX: +90 312 3324769
EMAIL: info@g3tek.com

UK

Lauterbach Ltd.
Mr. Barry Lock
11 Basepoint Enterprise Centre
Stroudley Rd
Basingstoke, Hants RG24 8UP
Phone: +44 1256 333 690
FAX: +44 1256 336 661
EMAIL: info_uk@lauterbach.com

USA East

Lauterbach Inc.
Mr. Udo Zoettler
4 Mount Royal Ave.
USA-Marlborough, MA 01752
Phone: +1 508 303 6812
FAX: +1 508 303 6813
EMAIL: info_us@lauterbach.com

USA West

Lauterbach Inc.
Mr. Jerry Flake
1111 Main Street, Suite 610
USA-Vancouver, WA. 98660
Phone: +1 503 524 2222
FAX: +1 503 524 2223
EMAIL: jerry.flake@lauterbach.com

Additional Information

http://www.lauterbach.com

Lauterbach GmbH
Altlaufstr. 40
D-85649 Hofolding
Tel. ++49 8102 9876-0 FAX -999
info@lauterbach.com
http://www.lauterbach.de

Lauterbach Inc.
4 Mount Royal Ave.
Marlboro MA 01752
Phone (508) 303 6812 FAX (508) 303 6813
info_us@lauterbach.com
http://www.us.lauterbach.com

Lauterbach Ltd.
11 Basepoint Enterprise Ctre Stroudley Road
Basingstoke, Hants RG24 8UP
Phone ++44-1256-333-690 FAX -661
info_uk@lauterbach.com
http://www.lauterbach.co.uk

Lauterbach S.A.R.L.
135 Chemin Des Bassins
F-94035 Créteil Cedex
Phone ++33-149-562-030
FAX ++33-149-562-039
info_fr@lauterbach.com
http://www.lauterbach.fr

Lauterbach Japan, Ltd.
3-9-5 Shinyokohama Kouhoku-ku
Yokohama-shi Japan 222-0033
Phone ++81-45-477-4511 FAX -4519
info_j@lauterbach.com
http://www.lauterbach.co.jp

Lauterbach s.r.l.
Lauterbach s.r.l.
Via Enzo Ferrieri 12
I-20153 Milano
Phone ++39 02 45490282
FAX ++39 02 45490428
info_it@lauterbach.it
http://www.lauterbach.it

Suzhou Lauterbach Consulting Co.,Ltd.
Room 1605, Xing Hai International Square
No.200, Xing Hai Street
Suzhou, 215021 PR of China
Phone: 0086-512 6265 8030
FAX: 0086-512 6265 8032
info_cn@lauterbach.cn
http://www.lauterbach.cn

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