



ARM7 Family Real-Time Trace

ARM710T-AMBA
ARM720T-AMBA
ARM740T-AMBA
ARM7TDMI
ARM7TDMI-AMBA
JANUS2
JANUS200
JANUS220
JANUSCC
SE470R1VB8AD
TMS320VC5470

- 50 MHz Trace
- ARM7TDMI and AMBA ASB Bus
- Up to 4 GByte trace memory
- 16...256 MFrames

Features

PowerView IDE

TRACE32-PowerView supports most compilers, realtime operation systems and debuggers.

New integrations are mostly done on customers request. If your compiler or RTOS is not supported now, please ask us !

Compiler Support

Language	Compiler	Company	Option	Comment
C	CARM	ARM Germany GmbH	ELF/DWARF	
C	ARMCC	ARM Ltd.	AIF	
C	ARMCC	ARM Ltd.	ELF/DWARF	
C	REALVIEW MDK	ARM Ltd.	ELF/DWARF2	
C	GCCARM	Free Software Foundation, Inc.	COFF/STABS	
C	GCCARM	Free Software Foundation, Inc.	ELF/DWARF2	
C	GREENHILLS C	Greenhills Software Inc.	ELF/DWARF2	
C	ICCARM	IAR Systems AB	ELF/DWARF2	
C	ICCV7-ARM	Imagecraft Creations Inc.	ELF/DWARF	ARM7
C	HIGH-C	Synopsys, Inc	ELF/DWARF	
C	TI-C	Texas Instruments	COFF	

Language	Compiler	Company	Option	Comment
C	GNU-C	Wind River Systems	COFF	
C	D-CC	Wind River Systems	ELF	
C++	ARM SDT 2.50	ARM Ltd.	ELF/ DWARF2	
C++	REALVIEW MDK	ARM Ltd.	ELF/ DWARF2	
C++	GCCARM	Free Software Foundation, Inc.	COFF/ STABS	
C++	GNU	Free Software Foundation, Inc.	EXE/ STABS	
C++	GCCARM	Free Software Foundation, Inc.	ELF/ DWARF2	
C++	GREENHILLS C++	Greenhills Software Inc.	ELF/ DWARF2	
C++	MSVC	Microsoft Corporation	EXE/ CV5	WindowsCE
C++	HIGH-C++	Synopsys, Inc	ELF/ DWARF	
C/C++	XCODE	Apple Inc.	Mach-O	
C/C++	VX-ARM	TASKING	ELF/ DWARF2	

RTOS Support

Name	Company	Comment
AMX	KadakProducts Ltd.	
Android	-	Dalvik support in development
ChorusOS	Oracle Corporation	
CMX-RTX	CMX Systems Inc.	
ECOS	eCosCentric Limited	1.3, 2.0 and 3.0
Elektrobit tresos	Elektrobit Automotive GmbH	via ORTI
embOS	Segger	3.80
Erika	Evidence	via ORTI
FAMOS	Fujitsu Limited	
FreeRTOS	Freeware I	v7

Name	Company	Comment
Linux	-	Kernel Version 2.4 and 2.6, 3.0
Linux	MontaVista Software, LLC	3.0, 3.1, 4.0, 5.0
Linux	Timesys Corporation	
Linux SMP	-	Kernel Version 2.4 and 2.6, 3.0
MQX	Freescale Semiconductor, Inc.	3.x and 4.x
MQX	Synopsys, Inc	2.40 and 2.50
NetBSD	-	
Nucleus PLUS	Mentor Graphics Corporation	
OS-9	Radisys Inc.	
OS21	ST Microelectronics N.V.	
OSE Basic	Enea OSE Systems	(OSARM)
OSE Delta	Enea OSE Systems	4.x and 5.x
OSE Epsilon	Enea OSE Systems	(OSARM), 3.x
OSEK	-	via ORTI
prKERNEL	eSOL Co., Ltd.	
ProOSEK	Elektrobit Automotive GmbH	via ORTI
pSOS+	Wind River Systems	2.1 to 2.5, 3.0
QNX	QNX Software Systems	6.0 to 6.5.0
QNX SMP	QNX Software Systems	6.0 to 6.5.0
rcX	Hilscher GmbH	implemented by Hilscher
RealTime Craft	GSI tecsi	(XECARM)
RTEMS	RTEMS	4.10
RTX-ARM	ARM Germany GmbH	
RTXC 3.2	Quadros Systems Inc.	
RTXC Quadros	Quadros Systems Inc.	
Sciopta	Sciopta	
SMX	Coressent Technology Inc.	
SMX	Micro Digital Inc.	3.4 to 4.0
Symbian OS	Symbian	6.x, 7.0s, 8.0a 8.1a
Symbian OS	Symbian	8.0b, 8.1b, 9.x
Symbian^3	Symbian	
SYS/BIOS	Texas Instruments	
T-Kernel	eSOL Co., Ltd.	
T-Kernel SMP	eSOL Co., Ltd.	
ThreadX	Express Logic Inc.	3.0, 4.0, 5.0
ThreadX SMP	Express Logic Inc.	3.0, 4.0, 5.0
uC/OS-II	Micrium Inc.	2.0 to 2.92
uC/OS-III	Micrium Inc.	3.0
uCLinux	Freeware II	Kernel Version 2.4 and 2.6, 3.0

Name	Company	Comment
ulTRON	-	HI7000, RX4000, NORTi,PrKernel
VxWorks	Wind River Systems	5.x and 6.x
VxWorks SMP	Wind River Systems	5.x and 6.x
Windows CE	Microsoft Corporation	4.0 to 6.0
Windows Embedded Compact 7	Microsoft Corporation	
Windows Embedded Compact 7 SMP	Microsoft Corporation	
Windows Mobile	Microsoft Corporation	4.0 to 6.0
Windows Phone 7	Microsoft Corporation	

Debugger Support

CPU	Debugger	Company	Host
ALL	X-TOOLS / X32	blue river software GmbH	Windows
ALL	CODEWRIGHT	Borland Software Corporation	Windows
ALL	CODE CONFIDENCE TOOLS	Code Confidence Ltd	Windows
ALL	CODE CONFIDENCE TOOLS	Code Confidence Ltd	Linux
ALL	EASYCODE	EASYCODE GmbH	Windows
ALL	ECLIPSE	Eclipse Foundation, Inc	Windows
ALL	RHAPSODY IN MICROC	IBM Corp.	Windows
ALL	RHAPSODY IN C++	IBM Corp.	Windows
ALL	LDRA TOOL SUITE	LDRA Technology, Inc.	Windows
ALL	ATTOL TOOLS	MicroMax Inc.	Windows

CPU	Debugger	Company	Host
ALL	VISUAL BASIC INTERFACE	Microsoft Corporation	Windows
ALL	LABVIEW	NATIONAL INSTRUMENT S Corporation	Windows
ALL	CODE::BLOC KS	Open Source	-
ALL	C++TEST	Parasoft	Windows
ALL	RAPITIME	Rapita Systems Ltd.	Windows
ALL	DA-C	RistanCASE	Windows
ALL	SIMULINK	The MathWorks Inc.	Windows
ALL	WINDOWS CE PLATF. BUILDER	Windows	Windows

Operation Voltage and Frequency

Max. Operation Frequency

The maximum operation frequency of TRACE32-RISC Trace or PowerTrace depends on:

- The max. frequency of the CPU
- The number of waitstates (bus trace)
- The divide factor between trace clock and core clock
- The speed of the trace adapter

Module	CPU	TRACE
LA-7874	ARM710T-AMBA	50.0 MHz
LA-7874	ARM720T-AMBA	50.0 MHz
LA-7874	ARM740T-AMBA	50.0 MHz
LA-7874	ARM7TDMI	50.0 MHz
LA-7874	ARM7TDMI-AMBA	50.0 MHz
LA-7874	JANUS2	50.0 MHz
LA-7874	JANUS200	50.0 MHz
LA-7874	JANUS220	50.0 MHz
LA-7874	JANUSCC	50.0 MHz
LA-7874	TMS320VC5470	40.0 MHz

Operation Voltage

This list contains information on probes available for other voltage ranges. Probes not noted here supply an operation voltage range from 4.5V to 5.5V.

Adapter	Code	OrderNo	Voltage Range
Preprocessor for ARM7 family	PP-ARM7-BUS	LA-7874	2.7 .. 5.5 V

Dimensions

Module Dimensions

Dimension
LA-7874 PP-ARM7-BUS

Available Tool Chain

TRACE32 provides a complete set of development tools for this family. This includes:

- The In-Circuit Emulator TRACE32-ICE
- The high speed RISC Emulator TRACE32-FIRE
- The BDM/JTAG/ONCE etc. based In-Circuit Debugger TRACE32-ICD
- The ROM Monitor based In-Circuit Debugger TRACE32-ICD
- The ICD Trace, a trace extension to the BDM/JTAG debuggers or ROM monitors
- Evaluation boards, which can be used until the target hardware is available.
- The Instruction Set Simulator (SIM), a software tool for code test without any hardware

The following list give an overview which development tools are available for the specific derivatives of this family.

CPU	ICE	FIRE	ICD DEBUG	ICD MONITOR	ICD TRACE	POWER INTEGRATOR	INSTRUCTION SIMULATOR
ARM710T-AMBA		YES	YES	YES	YES		YES
ARM720T-AMBA		YES	YES	YES	YES		YES
ARM740T-AMBA		YES	YES	YES	YES		YES
ARM7TDMI		YES	YES	YES	YES		YES
ARM7TDMI-AMBA		YES	YES	YES	YES		YES
JANUS2			YES		YES		YES
JANUS200			YES		YES		YES
JANUS220			YES		YES		YES
JANUSCC			YES		YES		YES
TMS320VC5470			YES	YES	YES		YES

Order Information

Module Description

OrderNo Code	Text
LA-7874 PP-ARM7-BUS	Preprocessor for ARM7 family Preprocessor for ARM7, connector cable and software

Detailed Order Information

Order No.	Code	Text
LA-7874	PP-ARM7-BUS	Preprocessor for ARM7 family
Additional Options		
LA-9670	A-INTEGRATOR- ARM	Adapter for ARM Integrator Board CM7TDMI

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Disclaimer

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