Supported Microcontrollers and Compilers for MICROSAR.MCAL

MICROSAR basic software is available for a broad variety of microcontrollers and compilers. Please find an overview in the table below. If your desired controller/compiler is not mentioned, please contact us at www.vector.com.

Controller	Compiler	MICROSAR.MCAL [1]				
		CAN	FlexRay	LIN	IP/Ethernet	Integrated MCAL Driver
Atmel						
AVR32	IAR	X		X		X
SAM V71	GreenHills, Keil	X			X	X
Cypress Semiconductor (formerly Spansion / Fujitsu)						
Fj16Fx	Fujitsu	X				
FCR4	Green Hills	X		X		X
FR60	Fujitsu	X				X
FR81	Fujitsu	X	X	X		X
MB86	GNU	X				
Traveo	Green Hills	X		X	[2]	[2]
Infineon						
TriCore AUDO TC1xxx	HighTec, Green Hills, Tasking	X	X	X		
TriCore Aurix TC2xx	HighTec, WindRiver, Tasking	X	X	X	X	X
XC2000	Tasking VX, Keil	X		X		
Microchip						
dsPIC33E, dsPic33F	Microchip	X				
NXP (includes former FREESCALE items)						
i.MX25, i.MX35	GNU	X				
i.MX6	ARM, Green Hills, GNU	X			X	[X]
LPC2xxx	Green Hills, Keil	X				
LPC17xx	Keil/ARM, Green Hills	X				X
MPC5xx	Green Hills	X				
MPC55xx	Green Hills, NXP, Wind River, GNU	X	X	X	[2]	X
MPC56xx (QORIVVA/ 5xxx/ Automotive)	Green Hills, NXP, Wind River, GNU	X	X	X	X	X
MPC57xx	Wind River, HighTec, Green Hills	X	X	X	X	X
S12X / S12	Cosmic, NXP	X	X	X		X
S32R (PPC based)	Green Hills	X			X	[X]
S32K (ARM based)	Green Hills					[X]
Vybrid VF6xx	ARM, Green Hills	X			X	X
Panasonic						
MN103	Matsushita	X				

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Controller	Compiler	MICROSAR.MCAL [1]				
		CAN	FlexRay	LIN	IP/Ethernet	Integrated MCAL Driver
Renesas Electronics (NEC/Renesas)						
M16C	Renesas	X				
M32R	Renesas	X				
M32C	Renesas, IAR	X				
Rcar	Renesas	X				
RH850 X1x	Green Hills, Windriver	X	X	X	[X]	X
RL78	Renesas, IAR	X				
R32C	Renesas, IAR	X		X		X
SH2	Renesas, Green Hills	X	X	X		X
SH4	Renesas	X				
V85x	Green Hills, IAR, Renesas	X	X	X	X	X
78K0R	IAR	X				
STMicroelectronics						
SPC56xx	Green Hills, NXP, Wind River	X	X	X	X	X
SPC57xx	Green Hills, HighTec, Wind River	X	X	X	X	X
SPC58xx	Green Hills	X	[2]	X	[X]	
STA8088	ARM	X				
STA1095, STA1085	GNU	X				
Texas Instruments						
TMS320	Texas Instruments, Microsoft	X				
TMS470	Texas Instruments	X		X		
TMS570	Texas Instruments	X	X	X	X	X
TDA2x, TDA3x	Texas Instruments	X				
DRx6, DRx7	Texas Instruments	X			[X]	
Xilinx						
Zynq-7000	ARM	X		X	[X]	X
Vector						
vVIRTUALtarget	Microsoft VisualC	X	X	X	X	X

[1] = Some of the MCAL drivers are created by hardware manufacturers. They correspond partly to AUTOSAR release 2.x, 3.x or 4.x.

[2] = In development

[X] = Partly supported. Please ask us about the restrictions which apply.

Supported Microcontrollers and Compiler for MICROSAR.OS

MICROSAR OS is available for a broad variety of microcontrollers and compilers. Please find an overview in the table below. If your desired controller/compiler is not mentioned, please contact us.

Microcontroller Family / Architecture	Compiler									
	ARM	DiabData	NXP	HighTec GNU	Green Hills	IAR	Matsushita	Microsoft	Renesas	Tasking
ARM[1]										
ARM Cortex A (ARMv7-A)	X				A					
ARM Cortex M (ARMv7-M)	A				X					
ARM Cortex R (ARMv7-R)	A				X					
Renesas Electronics										
RH850					X					
RL78						X			X	
Panasonic										
MN103							X			
NXP / ST Microelectronics										
MPC56xx / SPC56xx		X	P	A	X					
MPC57xx / SPC57xx		X		A	X					
Infineon										
AURIX				A						X
Vector										
CANoe osCAN Emulation								X		
vVIRTUALtarget								X		

X: Supported

P: Partly (Specific devices only)

A: Announced

Multicore and Functional Safety (ISO 26262)

The MICROSAR basic software is also available for multi-core systems and for safety-relevant ECUs according to ISO 26262. Vector will be pleased to support you in finding the best solution and check if your requirements are already supported by MICROSAR.

Availability and Contact

The MICROSAR software modules are hardware independent to a large extent. Only the modules listed in the table must be tailored for each hardware platform. Please send a request to Vector for the combination of derivative and compiler you require. Please collect this information as early as possible, so that Vector can supply your software for the project start. Find your contact person at: http://vector.com/vi_contact_en.html.

1 Licensed by majority of the world's leading semiconductor and fabless semiconductor companies