

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](http://www.vector.com).

Controller	Compiler	MICROSAR.MCAL [1]				
		CAN	FlexRay	LIN	IP/Ethernet	3 <sup>rd</sup> Party MCAL Driver integrated by Vector [10]
<b>Atmel</b>						
AVR32	IAR	X		X		
SAM V71	Green Hills, Keil	X			X	[5]
<b>Broadcom</b>						
BCM8910x	GNU	X			X	X
<b>Cypress Semiconductor (formerly Spansion / Fujitsu)</b>						
Fj16Fx	Fujitsu	X				
FCR4	Green Hills	X		X		
FR60	Fujitsu	X				
FR81	Fujitsu	X	X	X		X
MB86	GNU	X				
Traveo (S6J3xxx)	Green Hills	X		X	X	X
Traveo II	GNU			X		[2]
<b>Infineon</b>						
TriCore AUDDO TC1xxx	Green Hills, HighTec (GNU), Tasking	X	X	X		
TriCore Aurix TC2xx	HighTec (GNU), Tasking, Wind River	X	X	X	X	X
TriCore Aurix-2G TC3xx	HighTec (GNU), Tasking, Wind River	X	X	X	X	X
XC2000	Keil, Tasking VX	X		X		
<b>Microchip</b>						
dsPIC33E, dsPic33F	Microchip	X				
<b>NXP (includes former FREESCALE items)</b>						
i.MX25, i.MX35	GNU	X				
i.MX6	ARM, Green Hills, GNU, IAR	X			X	[3]
i.MX8	Green Hills			[2]	X	[3]
LPC2xxx	Green Hills, Keil	X				
LPC17xx	Keil/ARM, Green Hills	X				X
MPC5xx	Green Hills, Wind River	X				
MPC55xx	Green Hills, GNU, NXP, Wind River	X	X	X		
MPC56xx (QORIVVA/5xxx/Automotive)	Green Hills, GNU, NXP, Wind River	X	X	X	X	[3]
MPC57xx	Green Hills, HighTec (GNU), Wind River,	X	X	X	X	[3]
SJA1124 [4]	n/a (depends on root platform)			X		

Controller	Compiler	MICROSAR.MCAL [1]					3 <sup>rd</sup> Party MCAL Driver integrated by Vector [10]
		CAN	FlexRay	LIN	IP/Ethernet		
S12X / S12	Cosmic, NXP	X	X	X			X
S32G (ARM based)	Green Hills						[2]
S32K (ARM based)	Green Hills, GNU, IAR, ARM	X		X	X		[6]
S32R (PPC based)	Green Hills	X	[2]		X		X
Vybrid VF6xx	ARM, Green Hills, GNU, IAR	[X]			X		
<b>Panasonic</b>							
MN103	Matsushita/Panasonic	X					
<b>Renesas Electronics (NEC/Renesas)</b>							
M16C	Renesas	X					
M32R	Renesas	X					
M32C	IAR, Renesas	X					
R-Car x3	Renesas, Green Hills	[X]		[2]	[X]		[3] [9]
RH850 X1x	Green Hills, Wind River, Renesas	X	X	X	[X]		[3] [7]
RH850 U2A				[2]			
RL78	IAR, Renesas	X					
R32C	IAR, Renesas	X		X			
SH2	Green Hills, Renesas	X	X	X			
SH4	Renesas	X					
V85x	Green Hills, IAR, Renesas	X	X	X	X		
78K0R	IAR	[X]					
<b>STMicroelectronics</b>							
SPC56xx	Green Hills, HighTec (GNU), NXP, Wind River	X	X	X	X		[3]
SPC57xx	Green Hills, HighTec (GNU), Wind River	X	X	X	X		[3]
SPC58xx	Green Hills, Wind River	X	X	X	X		X
STA8088	ARM	X					
STA1095, STA1085	GNU	X					
STA1195, STA1295, ATK4245	ARM						X
STA1385	ARM	X			[X]		X
<b>Texas Instruments</b>							
AR14xx, AR16xx	Texas Instruments						X
TMS320	Microsoft, Texas Instruments	[X]					
TMS470	Texas Instruments	X		X			
TMS570	Texas Instruments	X	X	X	[X]		X
TDA2x, TDA3x	Texas Instruments, Keil	X			[X]		X
DRx6, DRx7	Texas Instruments	X			[X]		

Controller	Compiler	MICROSAR.MCAL [1]				
		CAN	FlexRay	LIN	IP/Ethernet	3 <sup>rd</sup> Party MCAL Driver integrated by Vector [10]
Xilinx						
Zynq-7000	ARM, Green Hills	X		X	X	[8]
Zynq-Ultrasc+ (MPSoC)	ARM				X	[2]
Vector						
vVIRTUALtarget	Microsoft VisualC	X	X	X	X	X

[1] = MCAL drivers are typically provided by hardware manufacturers. These drivers may correspond to different AUTOSAR releases. An „X“ within the column means that Vector has already integrated once the MCAL into their toolchain as well as with the Vector MICROSAR product to a complete basic software package. Please refer to our product description about MCAL Integration for further details on its content. Vector also offers a variety of MCAL drivers with ASIL A to D which can support your safety-relevant projects. Please contact our team for details.

[2] = In development

[3] = Those Microcontroller families have several sub families which have differences that may influence the availability regarding MCAL integration.

[4] = External (SPI) LIN controller with 4 LIN channels

[5] = MCAL supports IAR compiler only

[6] = ARM compiler not supported by the MCAL

[7] = MCAL supports Green Hills only

[8] = MCAL supports ARM and GNU compilers

[9] = MCAL supports ARM compiler only

[10] = Depends on the availability of a 3<sup>rd</sup> Party MCAL

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

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	Windriver DiabData	Texas Instruments	HighTec GNU	Green Hills	IAR	GCC	Renesas	Tasking
<b>ARM</b>									
ARM Cortex A (ARMv7-A)	X				X		X		
ARM Cortex M (ARMv7-M)	X				X	X	X		
ARM Cortex M (ARMv6-M)					D	D			
ARM Cortex R (ARMv7-R)	X		X		X	X	X		
ARM Cortex R (ARMv8-R)					D				
<b>Renesas Electronics</b>									
RH850 x1x					X			X	
RH850 U2A					D				
RL78						X		X	
<b>NXP / ST Microelectronics</b>									
MPC56xx / SPC56xx		X		X	X				
MPC57xx / SPC57xx		X		X	X				
SPC58xx		X		X	X				
<b>Infineon</b>									
TriCore AURIX				X					X
TriCore AURIX-2G				X					X
<b>Miscellaneous</b>									
POSIX							X		

X: Supported

D: In development

### 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](http://vector.com/vi_contact_en.html).

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