

CANopen Stack - Unterstützte Zielplattformen

Stand Q1/2022



Board / MCU Manufacturer	MCU Family / Boards	CAN controller / interface	Operating System	Demo based on MCU	Demo based on IDE	Demo Bootloader P/NSO-1089	Demo Master/Slave P/N SO-877	Demo Manager P/N SO-1063	Demo CiA device profile / Add-on	Target supported included in standard scope of CANopen Stack V5.70
-	X86	SocketCAN	Linux	-	GCC Eclipse	Yes	Yes	Yes	CiA 401	Yes
-	X86	SYS TEC USB-CANmodul series, SYS TEC CAN-Ethernet Gateway, PEAK PCAN-PCI, PEAK PCAN-USB, Vector CANcaseXL, Tews Technologies TPMC 816	Microsoft Windows OS	-	Microsoft Visual Studio	Yes	Yes	Yes	CiA 401	Yes
	X86	CANopen .NET API	Microsoft Windows OS		Microsoft Visual Studio	-	-	-	-	Yes
Broadcom®	Raspberry Pi® 3	SocketCAN, SYS TEC USB-CANmodul series	Linux	Raspberry Pi® 3 Model B ARM-Cortex-A53	GCC Eclipse	-	Yes	No	CiA 401	No
F&S	armStone A9R2	internal FlexCAN	Windows Embedded Compact 2013		Microsoft Visual Studio	-	Yes	No	CiA 401	Yes
Infineon	XMC4xxx	internal MultiCAN	-	XMC4500	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
Infineon	XMC4500 Relax Kit	internal MultiCAN	-	XMC4500	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
Infineon	TriCore TC1766	internal MultiCAN	PxROS	TC1766	GCC	-	Yes	No	CiA 401	No
Infineon	TriCore TC1796	internal MultiCAN	PxROS	TC1796	GCC	-	Yes	No	CiA 401	No
Infineon	XC22xx	internal MultiCAN	-	XC2287	Tasking	-	Yes	No	CiA 401, CiA 304 SRDO (requires SO-1059)	No
Microchip	PIC32MX	internal ECAN	-	PIC32MX795F512L	Microchip MPLAB	-	Yes	No	CiA 401	Yes
Microchip	PIC32MK	internal ECAN	-	PIC32MK1024GPE	Microchip MPLAB	-	Yes	No	CiA 401	Yes
Microchip	dsPIC33F	internal ECAN	-	dsPIC33F256	Microchip MPLAB	-	Yes	No	CiA 401, Bootloader (requires SO-1089)	Yes
Microchip	dsPIC33E	internal ECAN	-	dsPIC33EP256MU806	Microchip MPLAB	-	Yes	No	CiA 401	Yes
Microchip		external MCP2515	-	-	-	-	No	No	-	No
NXP	LPC17xx	internal NXP CAN controller	-	LPC1768	Code Red Tech - LPCXpresso	-	Yes	No	CiA 401	No
NXP	LPC21xx	internal NXP CAN controller	-	LPC2129	Keil µVision	-	Yes	No	CiA 401	No
NXP	LPC22xx	internal NXP CAN controller	-	LPC2294	IAR Embedded Workbench	-	Yes	No	CiA 401	No
NXP	LPC23xx	internal NXP CAN controller	-	LPC2368	Keil µVision	-	Yes	No	CiA 401	No
NXP	LPC2xxx	internal NXP CAN controller	-	LPC2129, LPC2294, LPC2368		-	No	No	Bootloader (requires SO- 1089)	No
NXP	Kinetis K60	internal FlexCAN	-		Keil MDK-ARM	-	Yes	No	CiA 401	Yes
NXP	Kinetis KE06	internal msCAN	-	FRDM-KE06Z	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
NXP	MPC56xx	internal FlexCAN	-	MPC5634M	S32 Design Studio for Power Architecture	-	Yes	No	CiA 401	Yes

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NXP	S32K1xx	internal FlexCAN (CAN FD ready)	-	S32K142	S32 Design Studio for ARM	Yes	Yes	No	CiA 401	Yes
NXP	S32K1xx	internal FlexCAN (CAN FD ready)	-	S32K146	S32 Design Studio for ARM	Yes	Yes	No	CiA 401	Yes
Phytec	phyCORE-AM335x	SocketCAN	Linux	AM3359	GCC	-	Yes	No	CiA 401	Yes
Renesas	Synergy S7	internal	Express Logic ThreadX	Synergy S7G2	e2 studio	-	Yes	No	CiA 401	Yes
Renesas	Synergy S5	internal	Express Logic ThreadX	Synergy S5D9	e2 studio	-	Yes	No	CiA 401	Yes
Renesas	Synergy S3	internal	Express Logic ThreadX	Synergy S3A7	e2 studio	-	Yes	No	CiA 401	Yes
Renesas	Synergy S7	internal	-	Synergy S7G2	e2 studio	-	Yes	No	CiA 401	Yes
Renesas	Synergy S5	internal	-	Synergy S5D9	e2 studio	-	Yes	No	CiA 401	Yes
Renesas	Synergy S3	internal	-	Synergy S3A7	e2 studio	-	Yes	No	CiA 401	Yes
Silicon Laboratories	C8051	internal BoschCAN	-	C8051F043		-	No	No		No
STMicroelectronics	STM32F	internal bxCAN	-	STM32F407	Keil MDK-ARM	Yes	Yes	Yes	CiA 401, CiA 304 SRDO (requires SO-1059)	Yes
STMicroelectronics	STM32F	internal bxCAN	Segger embOS	STM32F107	IAR Embedded Workbench	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32F	internal bxCAN	-	STM32F107	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32F	internal bxCAN	-	STM32F107, STM32F072	IAR Embedded Workbench	-	No	No	Bootloader (requires SO-1089)	No
STMicroelectronics	STM32F	internal bxCAN	-	STM32F205	Keil MDK-ARM	Yes	Yes	No	CiA 401	Yes
STMicroelectronics	STM32F	internal bxCAN	-	STM32F373	Keil MDK-ARM	Yes	Yes	No	CiA 401	Yes
STMicroelectronics	STM32F	internal bxCAN	-	STM32F767	Keil MDK-ARM	Yes	Yes	No	CiA 401, CiA 304 SRDO (requires SO-1059), CiA 402 (requires SO-1081)	Yes
STMicroelectronics	STM32F	internal bxCAN	Keil RTX 5V2	STM32F373	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32F	internal bxCAN	Keil RTX 5V2	STM32F407	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32F	internal bxCAN	FreeRTOS®	STM32F373	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32F	internal bxCAN	FreeRTOS®	STM32F407	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32H	internal FD CAN (CAN FD ready)	-	STM32H743	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32H	internal FD CAN (CAN FD ready)	-	STM32H743	CubeIDE	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32H	internal FD CAN (CAN FD ready)	FreeRTOS®	STM32H743	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32H	internal FD CAN (CAN FD ready)	FreeRTOS®	STM32H743	CubeIDE	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32H	internal FD CAN (CAN FD ready)	Keil RTX 5V2	STM32H743	Keil MDK-ARM	-	Yes	No	CiA 401	Yes
Texas Instruments	AM335X	SocketCAN	Linux	AM3359	GCC Eclipse	-	Yes	No	CiA 401	Yes
Texas Instruments	TMS570	internal DCAN	-	TMS570LS20216	Code Composer Studio	-	No	No	CiA 304 SRDO (requires SO-1059)	Yes

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Texas Instruments	TMS320F28x	internal eCAN	-	TMS320F28035	Code Composer Studio	-	Yes	No	CiA 401	No
Texas Instruments	TMS32F28xxx	internal DCAN	-	TMS32F28379D	Code Composer Studio v10	-	Yes	No	CiA 401	Yes
Texas Instruments	Hercules RM48	internal DCAN	-	RM48L952	Code Composer Studio	-	No	No	CiA 304 SRDO (requires SO-1059)	Yes
Texas Instruments	Hercules RM42	internal DCAN	-	RM42L32	Code Composer Studio	-	No	No	CiA 304 SRDO (requires SO-1059)	Yes
Texas Instruments	Stellaris® LM3S	internal BoschCAN	-	LM3S8971	Keil µVision	-	Yes	No	CiA 401	Yes
Texas Instruments	TMS570	internal DCAN	SafeRTOS	TMS570LS1227	Code Composer Studio	-	Yes	No	CiA 401	Yes
Texas Instruments	TMS570	internal DCAN	-	TMS570LS1227	Code Composer Studio	-	Yes	No	CiA 401	Yes
Texas Instruments	TMS320	internal DCAN	-	TMS320F28379D	Code Composer Studio v10	-	Yes	No	CiA 401	Yes
Infineon	TriCore TC1797	internal MulticAN	-	TriBoard TC1797	Tasking VX-Toolset for TriCore	-	Yes	No	CiA 401	Yes
STMicroelectronics	STM32G	internal FDCAN	-	STM32G474RE	KEIL-MDK ARM	-	Yes	Yes	CiA 401	No
STMicroelectronics	STM32G	internal FDCAN	-	STM32G474RE	KEIL-MDK ARM	-	Yes	Yes	CiA 401	No
STMicroelectronics	STM32G	internal FDCAN	-	STM32G474RE	CubeIDE	-	Yes	Yes	CiA 401	No
STMicroelectronics	STM32G	internal FDCAN	-	STM32G474RE	CubeIDE	-	Yes	Yes	CiA 401	No
Texas Instruments	TMS320	internal DCAN	-	TMS320F280049C	Code Composer Studio v11	-	Yes	No	CiA 401	Yes
Texas Instruments	TMS320	internal DCAN	-	TMS320F28375s	Code Composer Studio v11	-	Yes	No	CiA 401	Yes