



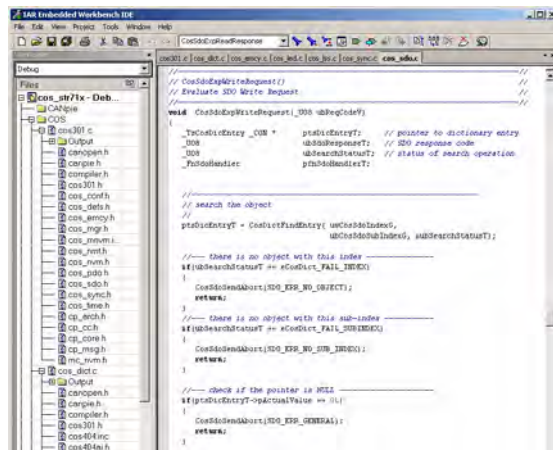
Source Code

CAN Driver Source Code - CANpie

CAN driver for embedded applications

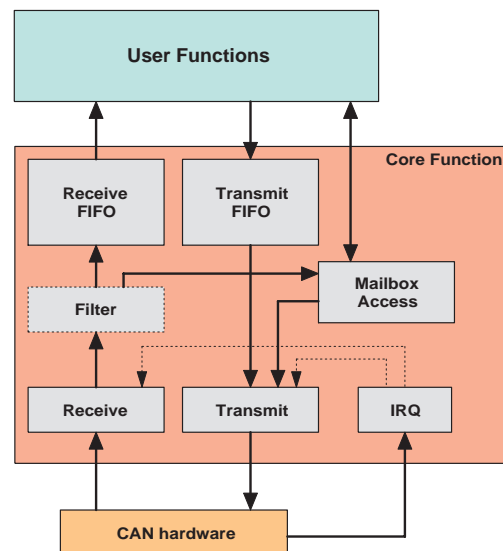
The driver CANpie (Controller Area Network Programming Interface Environment) is a standardized API for software engineering of CAN applications.

The driver source is the base for many higher-layer protocols (CANopen / DeviceNet / J1939). Driver sources are available for a wide range of microcontroller platforms. The CANpie drivers are scalable and modular - thus are easy to implement.



Features

- Modular design, scalable, easy to implement
- Optimized for low resources (ROM / RAM)
- Wide range of supported CAN controllers
- Support of standard and extended frames (11-Bit / 29-Bit Identifier)
- Data flow by polling or interrupt driven
- Supports virtual mailboxes



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Technical Data	CAN driver source code - CANpie
Identifier	<ul style="list-style-type: none"> • Standard Frame (11-Bit) • Extended Frame (29-Bit)
Formats	<ul style="list-style-type: none"> • Data Frame • Remote Frame • Error Frame (Receive)
Monitoring of fault conditions (depending on controller)	<ul style="list-style-type: none"> • ACK • Bit Error • Format Error • CRC Error • Stuff Error
Dataflow	<ul style="list-style-type: none"> • Interrupt • Polling
Special Features	<ul style="list-style-type: none"> • Mailbox access • Software Filter

Order Number	Description / CAN Controller	
50.10.010	ATMEL	AT90CAN32 / AT90CAN64 / AT90CAN128
50.10.011	ATMEL	AT89C51CC01 / AT89C51CC03
50.10.032	ATMEL	AT91SAM7X128 / AT91SAM7X256 / AT91SAM7X512
50.10.026	Cygnal	C8051Fxxx (C8051F040, C8051F041)
50.10.021	Freescale	Coldfire (MCF523x / MCF528x)
50.10.023	Freescale	XGATE (MC9S12XDP512)
50.10.016	Fujitsu	16LX family 340 (MB90F342 / MB90F347)
50.10.017	Fujitsu	16LX family 385 (MB90F387)
50.10.024	Fujitsu	16LX family 495 (MB90F497 / MB90F498)
50.10.033	Fujitsu	16FX family 340 (MB96F347 / MB96F348)
50.10.002	Infineon	C505
50.10.004	Infineon	C166 family (C161, C164, C167)
50.10.030	Infineon	XC166 family (XC161CS, XC164CS, XC167CI)
50.10.012	Microchip	PIC18Fxx8x family (18F4680 / 18F6680 / 18F8680)
50.10.008	NEC	μPD70F32xx family (AFCAN)
50.10.003	NXP	SJA1000
50.10.015	NXP	LPC21xx family (LPC2119 / LPC2129)
50.10.027	ST	STR7 family (STR710 / STR712)
50.10.028	ST	STR9 family (STR910 / STR911 / STR912)
50.10.029	ST	STM32F103x family (STM32F103T / STM32F103R)
50.10.020	Texas Instruments	DSP TMS320F28xx
50.10.025	Texas Instruments	DSP TMS320LF24xx

Changes without notice
Rev. A