

CAN IP

CAN controller

Overview

This IP is a single channel of the CAN (Controller Area Network) controller that complies with the ISO 11898-1 Standards. The CAN controller transmits and receives both formats of messages, namely the standard identifier (11 bits) (identifier is hereafter referred to as ID) and extended ID (29 bits).

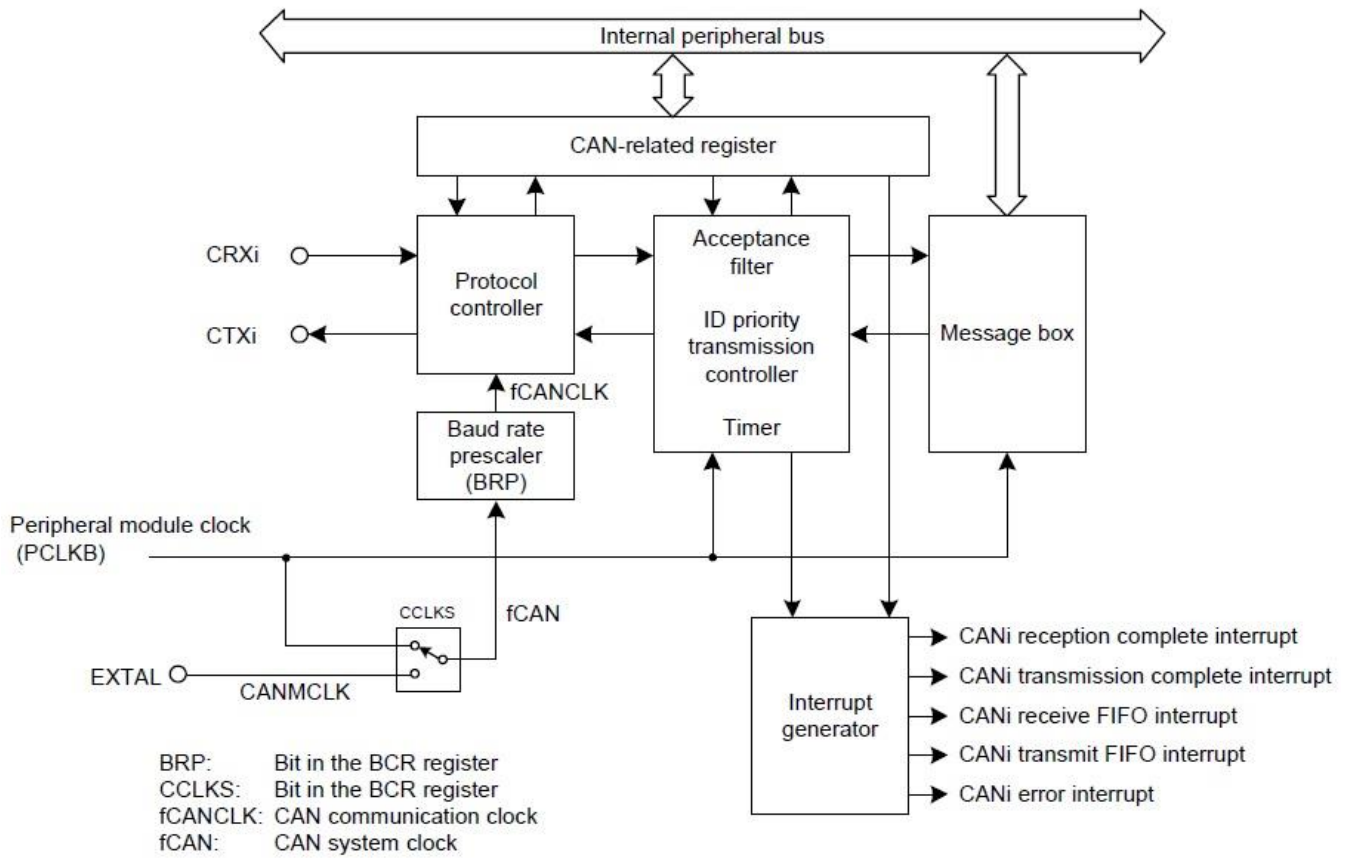
IMPORTANT: When selling a device that includes the Renesas CAN2.0 IP core, you must contract CAN2.0 Protocol license with Bosch.

Key Features

- Protocol : ISO 11898-1 compliant (standard and extended frames)
- Reception
 - Data frame and remote frame can be received.
 - Selectable receiving ID format (only standard ID, only extended ID, or both IDs)
 - Programmable one-shot reception function
 - Selectable from overwrite mode (message overwritten) and overrun mode (message discarded)
 - The reception complete interrupt can be individually enabled or disabled for each mailbox.
- Transmission
 - Data frame and remote frame can be transmitted.
 - Selectable transmitting ID format (only standard ID, only extended ID, or both IDs)
 - Programmable one-shot transmission function
 - Selectable from ID priority mode and mailbox number priority mode
 - Transmission request can be aborted (the completion of abort can be confirmed with a flag)
 - The transmission complete interrupt can be individually enabled or disabled for each mailbox.

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Block Diagram



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