



Figure 1: NA33 System with CAN Bus Logger

- Timestamps sync. with NA33 analog / digital recording
- Logs CAN messages with timestamp and identifier
- Read / write of CAN messages thru TXT files
- Triggered transmission of CAN messages
- Cyclic transmission of CAN messages
- CAN 2.0A and CAN2.0B compatible
- Two independent CAN channels
- Creates CAN analyzer trace files
- Compatible to CrashSoft^{®3}
- ISO 11898 compatible
- 8 MByte message buffer
- NA33 plug in board
- 4 digital inputs / 4 digital outputs

Technical Specifications

Number of CAN channels	2
Max. data rate	1Mbit/s
Min. sampling time	60 s
Timestamp resolution	50 μ s
Max. message rate	7,700 messages / s / channel
Number of LIN channels	2
Number of digital inputs	4
Number of digital outputs	4

Block Diagramm

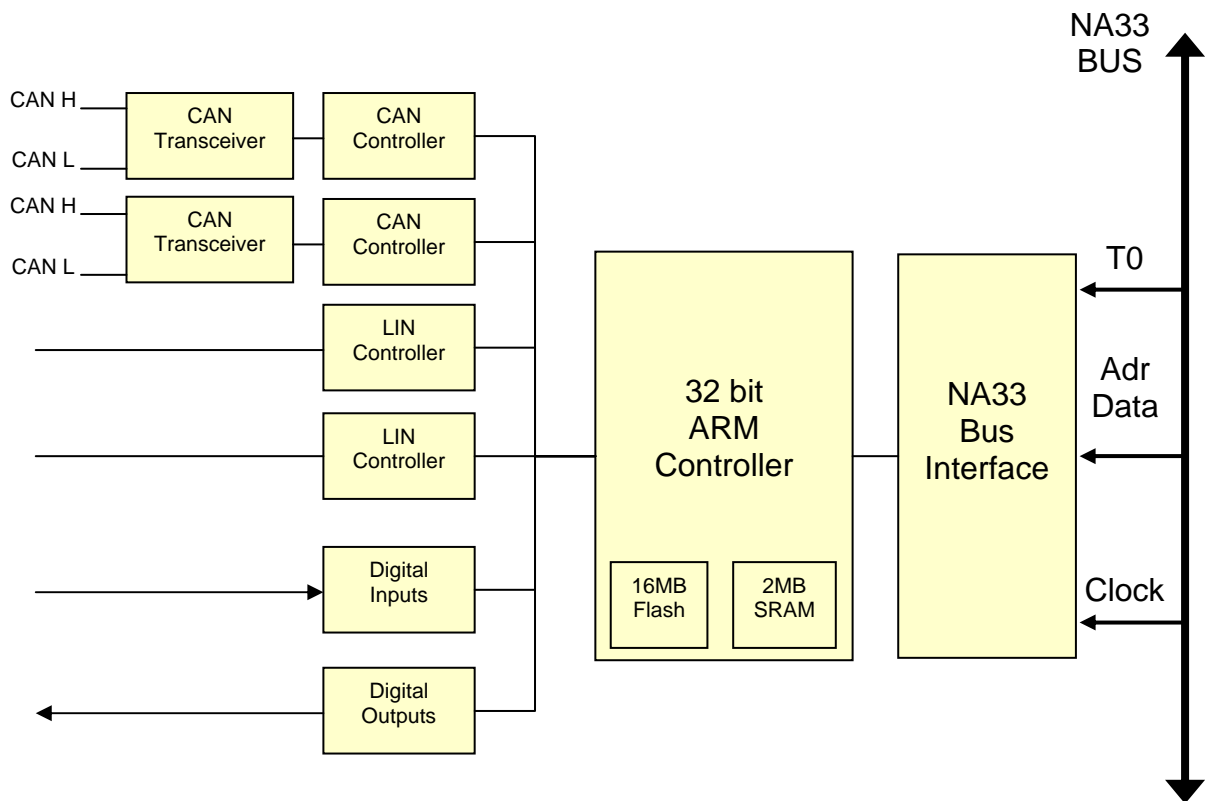


Figure 2: Block diagram of logger

Logger Function

The logger function can log all incoming and outgoing events. There are several event sources on the board. Every source can save message or event data in the 2 MByte large ring buffer with an absolute time stamp.

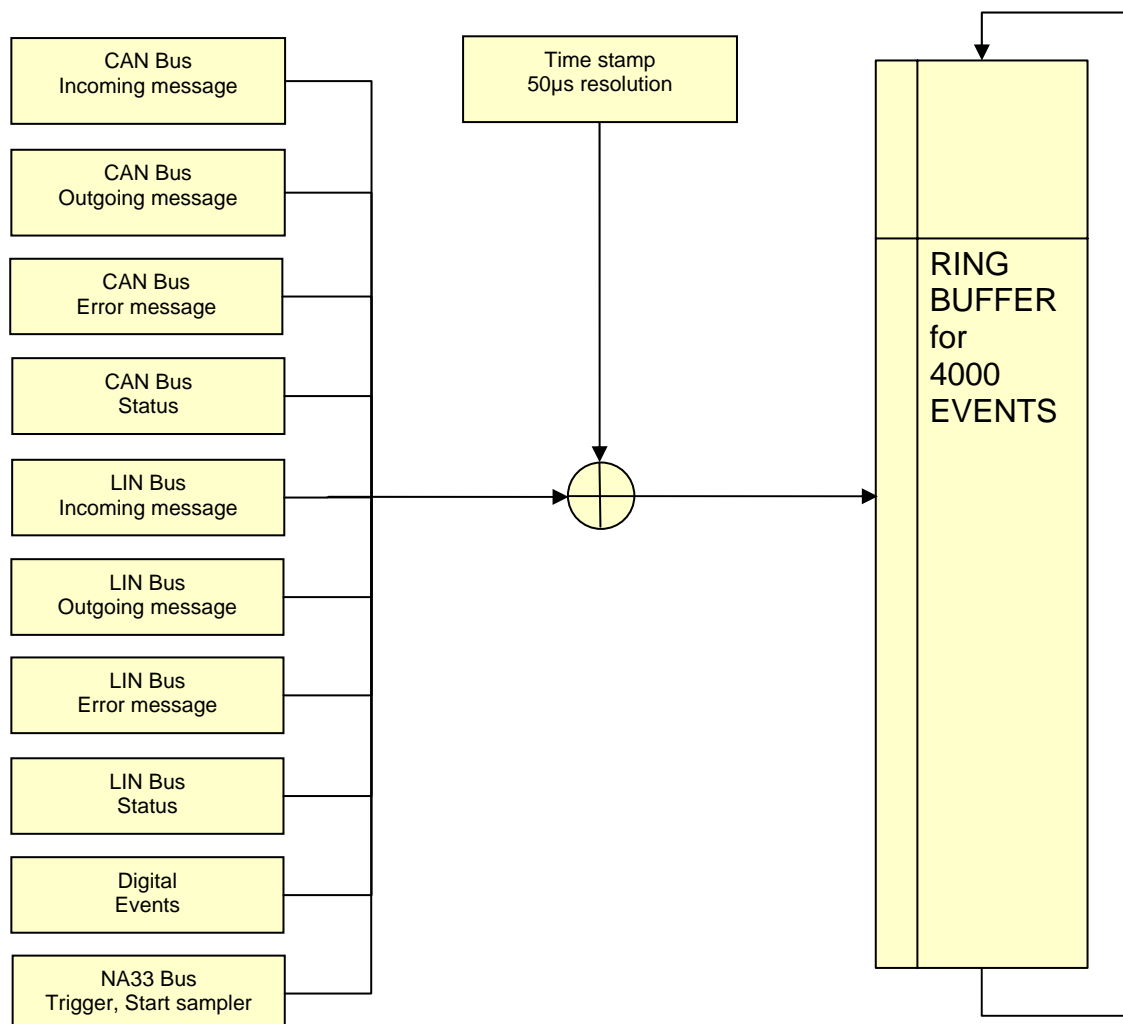


Figure 3: Functional diagram of logger

Simulator Function

The CAN simulator can send CAN messages cyclic or triggered by an event. 32 simulator blocks with up to 64 CAN messages can be defined. Each block is executed separately, quasi simultaneously and with its own trigger event. Therefore complex command structures can be setup for CAN components, like belt pretensioners and so on.

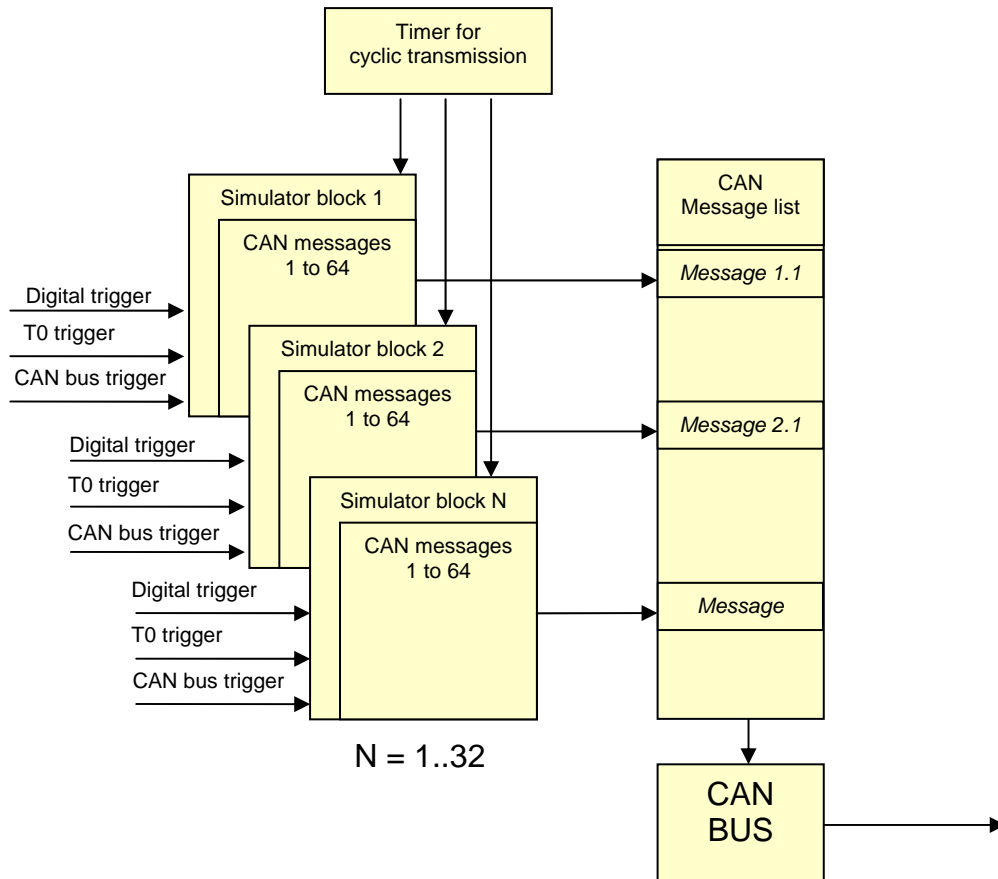


Figure 4: Functional diagram of simulation