

Bit Time Calculations for the Microchip CAN

Setup Criteria

Oscillator Frequency	16,000 MHz
Target CAN Bus Baud Rate	500,000 kbps

Selected Options

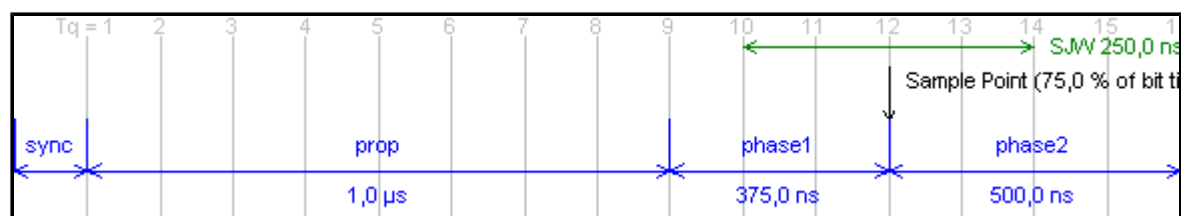
BRP-1 (Baud Rate Prescaler)	0
T _q (Time Quanta)	125,000 ns
Number of Time Quanta	16
% Error of Target Baud Rate	0,0 %

Bit Timing Setup in T_q

Propagation Delay	8
Phase Segment 1	3
Phase Segment 2	4
Synchronization Jump Width (SJW)	2

Multiple bit sampling is off. Wakeup filter is off.

Bit Timing Diagram



Configuration Register Setup (PIC18/MCP251X) (neoVI blue/green, ValueCAN 2)

Register	Binary	Hexadecimal
CNF1/BRGCON1	b'01000000'	0x40
CNF2/BRGCON2	b'10010111'	0x97
CNF3/BRGCON3	b'00000011'	0x03

Configuration Register Setup (dsPIC33F,PIC24H,dsPIC30) (neoVI Red/Fire/Test/Yellow/ECU, ValueCAN 3)

Register	Binary	Hexadecimal
CICFG1	b'0000000001000000'	0x0040
CICFG2	b'00000001110010111'	0x0397

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Microchip CAN Bit Timing Calculator by Intrepid Control Systems, Inc. (www.intrepidcs.com)

