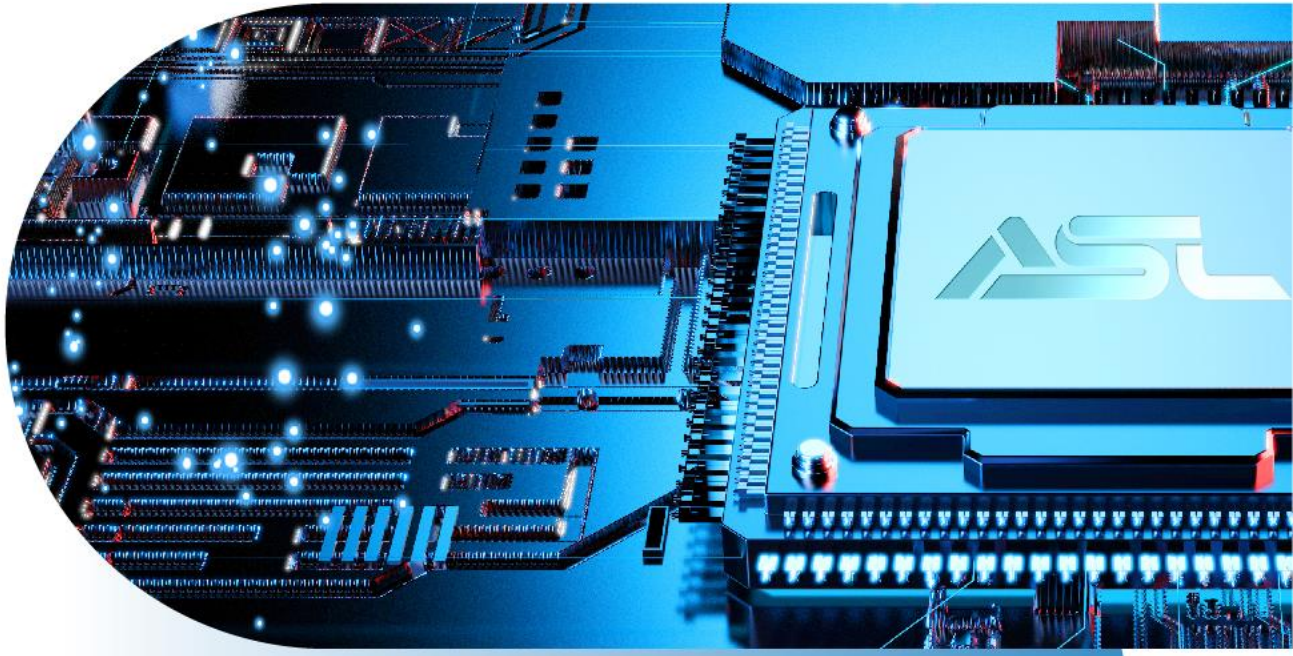
Application Note
ASL_I2C_Read_Write_V1.2



ASL Technology CO., LTD

Description

ASL Chip I2C Slave interface data format:

Device ID 8bit	BlockID 8bit	Offset high 8bit	Offset Low 8bit	Data 8bit
Different chip is different	Range 0-0x7F	Range 0-0xFF	Range 0-0xFF	Range 0-0xFF

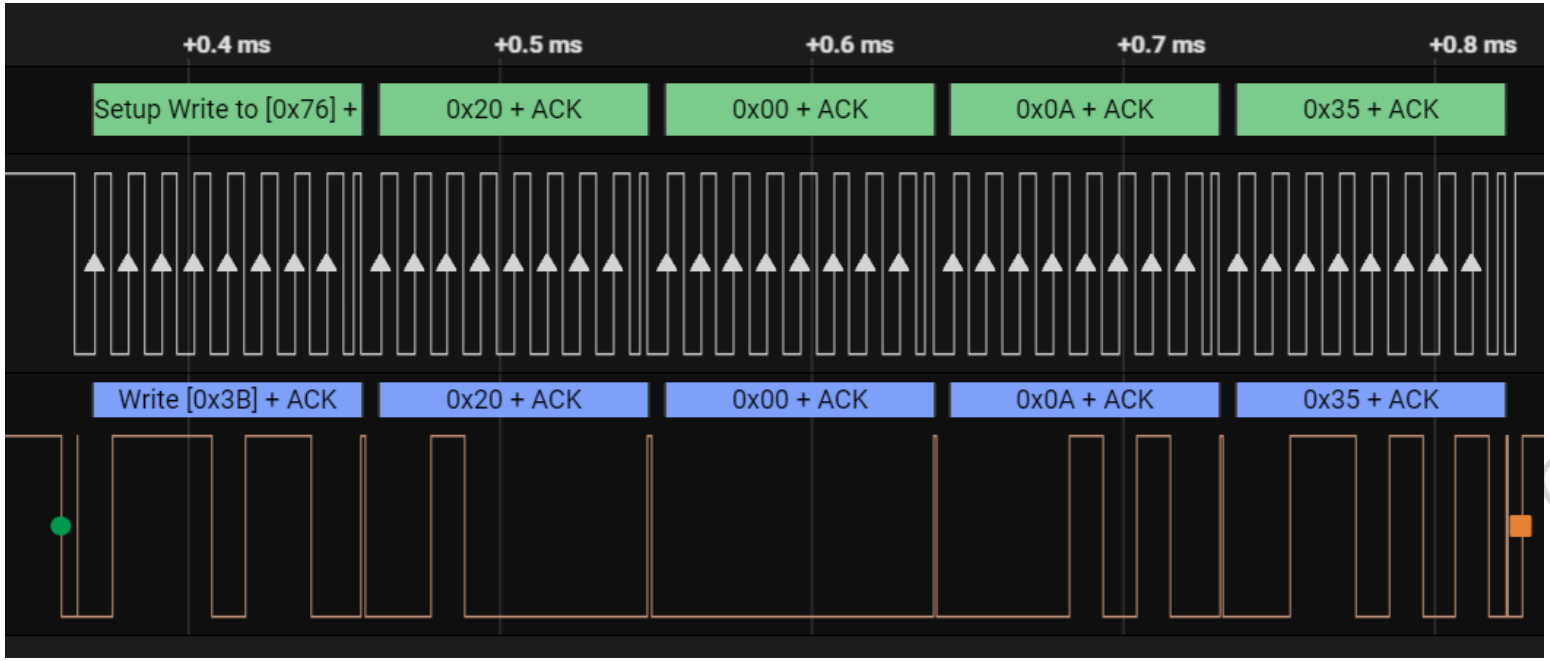
Example： I2C Write

Example： Write CSxxxx chip register, Device ID is 0x76, Block ID=0x20, offset=0x0A, Write data is 0x35

I2C data format is show as below:

Start—0x76(Write/Ack)—0x20(Ack) —0x00(Ack) —0x0A(Ack) —0x35(Ack) —Stop

The waveform is show as below:



Example： I2C Read

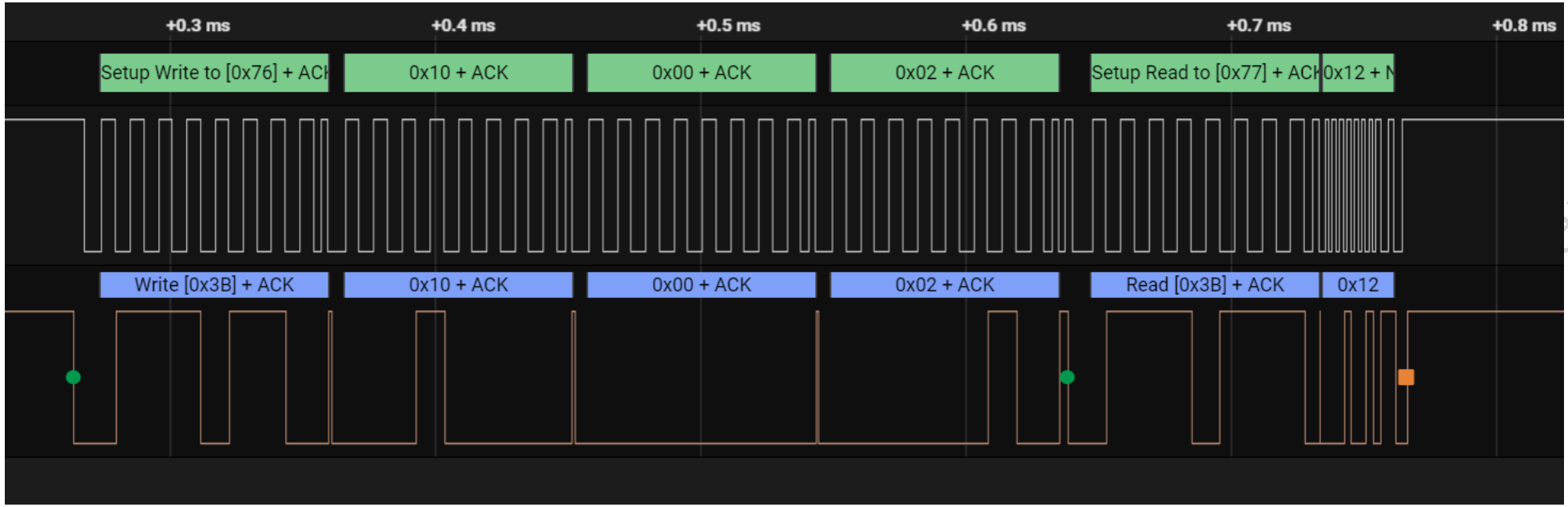
Example： Read CSxxxx chip register, Device ID is 0x76, Block ID=0x20, offset=0x02, Read data is 0x12

I2C data format is show as below:

Start—0x76(Write/Ack)—0x10(Ack) —0x00(Ack) —0x02(Ack)

—Restart-- 0x77(Read/Ack)— 0x12(No Ack) —Stop

The waveform is show as below:



Thanks