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ADS114S08: Gain setting



[Shinya Sawamoto](#)

Expert 5260 points



Texas Instruments

Part Number: [ADS114S08](#)

Hello team,

Let me ask a quick question.

Is the total gain is determined in the device only by PGA gain selection register (GAIN[2:0])?

Or is there any other gain control element such digital PGA?

Thanks in advance.

S.Sawamoto

[over 4 years ago](#)



Bob Benjamin *over 4 years ago*

[TI_Guru**](#) 113705 points

Hi Sawamoto-san,

You are correct in that the only PGA gain selection are using the gain selection bits GAIN[2:0] in the gain settings register at address 0x03. The gain settings are discussed in section 9.3.2 of the ADS114S08 datasheet.

The analog PGA allows for gains of 1 to 32. Gains of 64 and 128 use digital gain along with the PGA set to a gain of 32. So all gain control is accomplished with the GAIN[2:0] bits.

Best regards,

Bob B

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