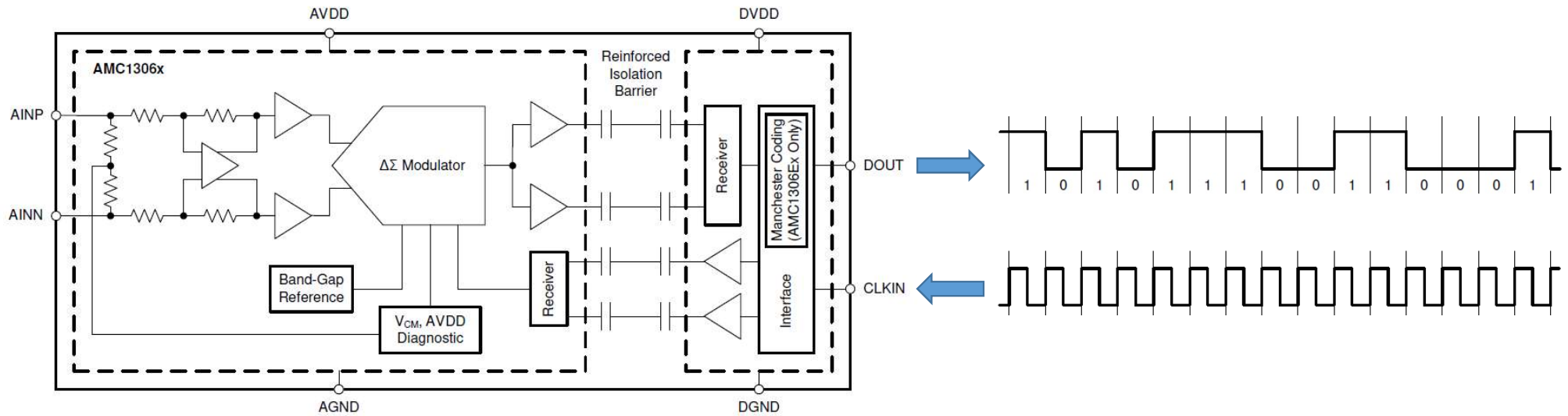


* TI AMC1306M25 Input and output signal



-> If 5 [Mhz] ~ 20 [Mhz] Clock signals are continuously input to CLKIN PIN, Uncoded Bitstream signal is output.

* Form of output signal

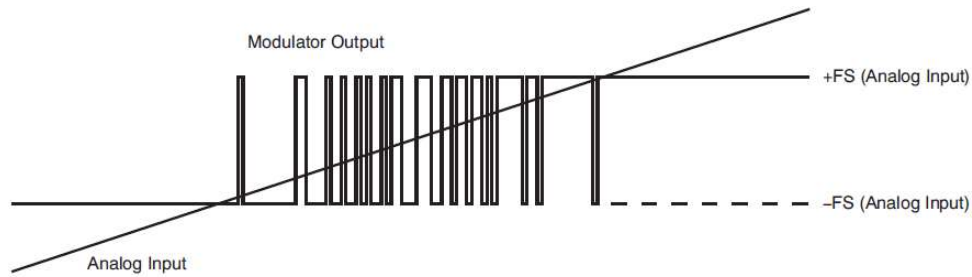
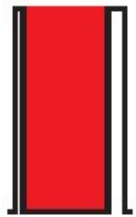


Figure 51. Analog Input versus the AMC1306 Modulator Output

-> The shape of the output signal changes in amplitude of the pulse in proportion to the input voltage.



-> Low amplitude
when input voltage is low



-> High amplitude
when input voltage is high

-> As the input voltage increases, the amplitude of the pulse increases proportionally, and as the input voltage decreases, the pulse width also decreases.

* MCU Confirmation of data sheet

8 multiplexed input digital serial channels:

- Configurable SPI interface to connect various SD modulator(s)
- Configurable Manchester coded 1 wire interface support
- PDM (Pulse Density Modulation) microphone input support
- Maximum input clock frequency up to 20 MHz (10 MHz for Manchester coding)
- Clock output for SD modulator(s): 0..20 MHz

-> I think the phrase in the red box means that the value of the pulse width is small and large.

* HW connection and 10 channel connection between MCU PIN and external AMC1306M25

