Introduction to QAM and OFM
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Amplitude Modulation Model

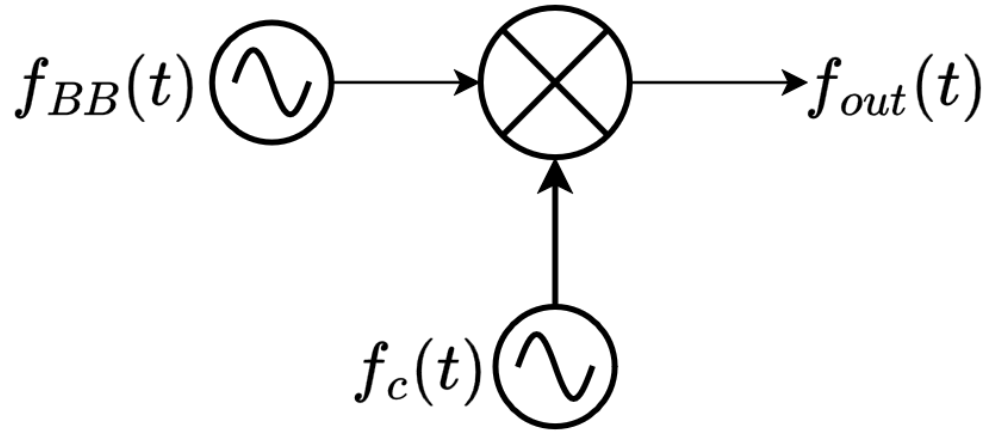$$f_{BB}(t)$$ ⊗ $$f_{out}(t)$$

$$f_c(t)$$

Figure 1: Symbol model
of amplitude modulation

- $f_{BB}(t)$: Base-band Signal
  (low frequency user input)

- $f_c(t)$: Carrier Signal
  (high frequency carrier)

$$f_{out}(t) = f_{BB}(t) \cdot f_c(t)$$

Equation 1: Mathematical model of amplitude
modulation

Amplitude Modulation – Time Domain Example