



**IDT Technology Limited**

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## **Technical Description of BARM969PA** (Transmitter Portion)

BARM969PA is a remote transmitter. It converts wake up measurement into OOK signal format and transmits through the RF channel of 433.92MHz. It is consisted of 2 parts: Control U103 part and transmitter part. The MCU outputs the digital data, then this data will be modulated into the Colpitts oscillator, where the SAW Y1 are used to adjust the operating frequency to 433.92MHz. The transistor Q3, with its  $f_T$  greater than 6GHz, provides a good frequency response to the oscillator circuitry. The high frequency component of the data is suppressed by the RC filter, consisted of the resistor R8 and capacitors C8 and C9. C11, C10, C12, C14 performs as matching network.