



IDT Technology Limited

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## FACSIMILE COMMUNICATION

### Technical description of THGR122NX

THGR198N is a transmitter, which it operated at 433.96MHz at the center frequency with integral antenna. The EUT powered by 3V DC ( 2 X UM4 or “AAA” size 1.5V batteries ).When the batteries supplied to the unit, the MCU (U1) start to collect all relative data from the sensing devices, (eg TEMP, Humidity, Channel and C/F setting ). After the conversion by MCU U1, all data have be converted to serial signal.

The signal should be in OOK format.

#### Transmitter

The X2 as the SAW filter, it used to control the OSC frequency and turned at 433.96MHz , the OOK signal have be amplified by Q10 and radiated from interal antenna.

#### Miscellaneous

The U1 MCU used as the encoder function, which it converted the TEMP & Humidity value into the OOK singal, The 32.768KHz as the main clock of MCU.