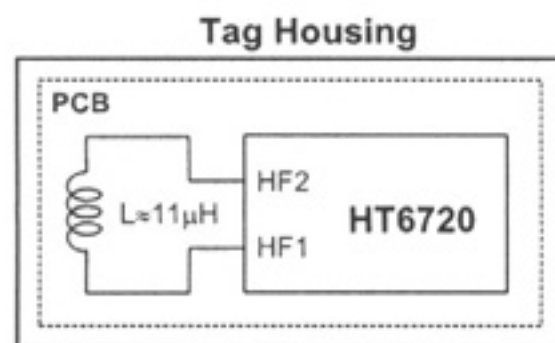


Application Circuits

Tag

A tag consists of a PCB (or Mylar film) with printed coil, HT6720 and a housing. The housing can be of various shapes.

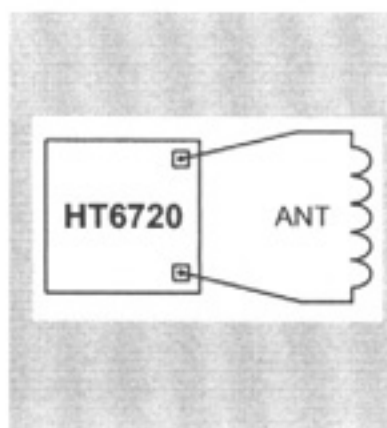


Note: The value of the antenna inductance is $11 \mu H$, however the optimum value will be changed slightly due to the variation of the internal resonance capacitor ($10 pF$ typically) during process.

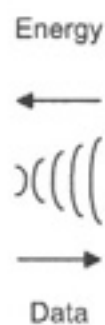
For more application information about the reader, refer to Holtek's 13.56MHz RF ID reader data.

2-chip solution

Holtek Transponder Solution

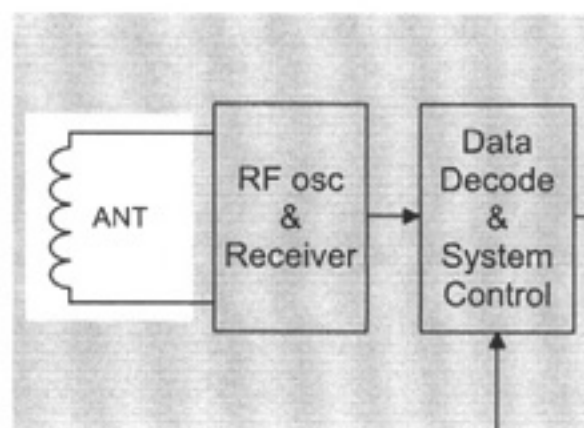


Energy
Data

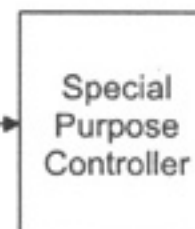


The diagram shows two sets of curved lines representing magnetic fields. An arrow labeled 'Energy' points from the reader towards the transponder. An arrow labeled 'Data' points from the transponder towards the reader.

Holtek Reader Solution



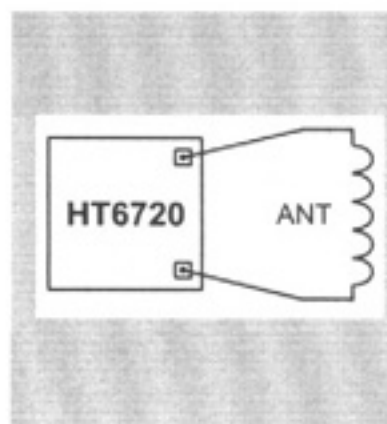
Other Controller



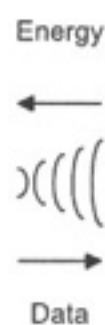
Holtek low cost MCU:
HT48R05A/HT48R06A

1-chip solution (I)

Holtek Transponder Solution

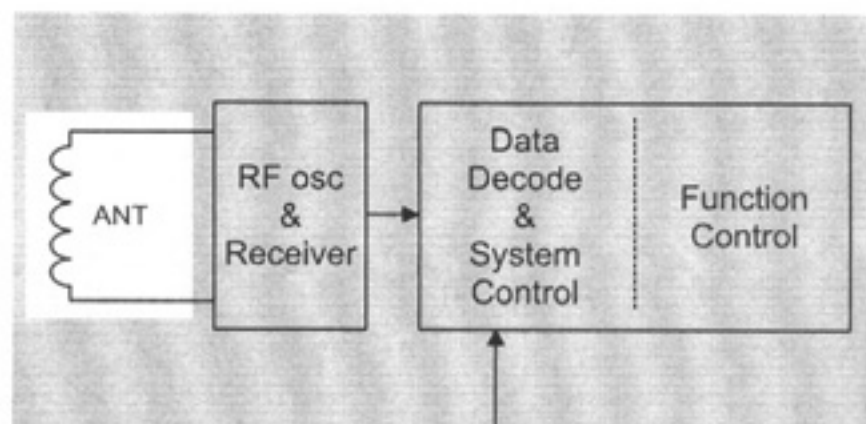


Energy
Data



The diagram shows two sets of curved lines representing magnetic fields. An arrow labeled 'Energy' points from the reader towards the transponder. An arrow labeled 'Data' points from the transponder towards the reader.

Holtek Reader Solution



Holtek Standard MCU:
HT48XXX/HT49XXX