

ABSTRACT

Title: PASSIVE RANGE EXTENDER/BOOSTER FOR RFID TAG/READER

Inventors: Chung Say Kin / Lim Peck Hui

Assignee: Tunity Pte Ltd.

This is a passive radio frequency (RF) inductance-capacitance (LC) tuned circuit of 13.56MHz (not limited to other frequencies within the RF spectrum) as an antenna booster to increase the read range of the 13.56 MHz Radio Frequency Identification (RFID) tag. This antenna booster can be placed close to the RFID tag or near the RFID reader antenna to increase the reading range of the RFID tags.

This invention differs from conventional antenna as it makes use of a passive closed loop LC tuned circuit to couple and amplify the electro-magnetic field energy of the existing RFID tag or the RFID reader antenna to achieve longer reading range.



Tunity Pte Ltd

452 Corporation Road, #03-08
Singapore 649811
Fax: (65) 6560-8806