

# WHAT'S THE DIFFERENCE BETWEEN





**3 PARTS OF A TYPICAL** 

**RFID SYSTEM:** 

TAG

÷,

**ANTENNA** 

READER







- Operate at the same frequency (13.56 MHz) as HF RFID readers and tags
- May act as both a reader and a tag
- Devices must be in close proximity due to the short read range limitations of its radio frequency (usually no more than a few centimeters)

## **RFID FREQUENCY RANGES:**

Low Frequency (LF): H 125–134 kHz

(LF)

**Range:** 

Up to 10 cm



(HF)

**Range:** 

Up to 30 cm







Range: Up to 100 m

## **RFID CAN BE EITHER...**

ACTIVE Own power source Broadcast range up to 100 meters



#### **POPULAR USES:**



INFORMATION SHARING Transferring info between smartphones by tapping two devices together





**CONTACTLESS PAYMENT** Credit cards, debit cards, key fobs and other devices use NFC to make secure payments



Ideal for material location



#### ...or PASSIVE

- No power source
- Powered by a reader
- Read range from near contact up to 25 meters

NFC devices now. By 2014, there will be 300 MILLION."





SMART POSTERS Using an NFC-enabled smartphone, viewers can access exclusive content

#### **POPULAR USES:**

- Asset Tracking
- Race Timing
- Inventory Management
- Tool TrackingAccess Control
- Attendee Tracking





www.atlasRFIDstore.com

Sources: http://online.wsj.com/article/SB10001424127887324103504578372450500759438.http://www.marketsandmarkets.com/Market-Reports/near-field-communication-nfc-market-520.http://www.marketsandmarkets.com/Market-Reports/near-field-communication-nfc-market-520.http://www.marketsandmarkets.com/Market-Reports/near-field-communication-nfc-market-520.http://www.marketsandmarkets.com/Market-Reports/near-field-communication-nfc-market-520.http://www.marketsandmarkets.com/Market-Reports/near-field-communication-nfc-market-520.http://www.marketsandmarkets.com/Market-Reports/near-field-communication-nfc-market-520.http://www.marketsandmarkets.com/Market-820.http://www.marketsandmarkets.com/Market-820.http://www.marketsandmarketsandmarkets.com/Market-820.http://www.marketsandma