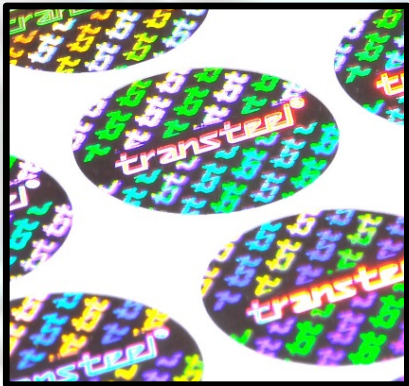
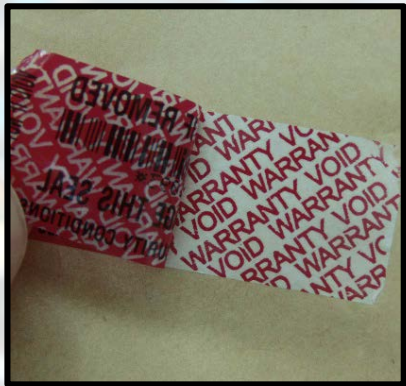


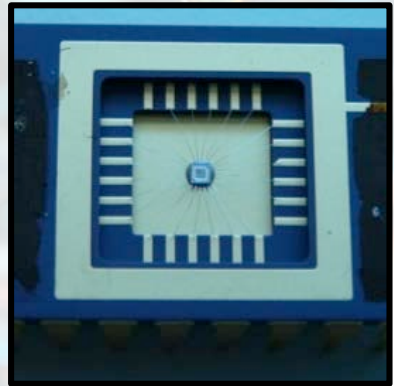
Comparison To Existing Anti-Counterfeiting Products



- ↓ RFID:
- × Expensive reader
 - × Not food-safe
 - × High cost and bulk
 - × Risk to hacking

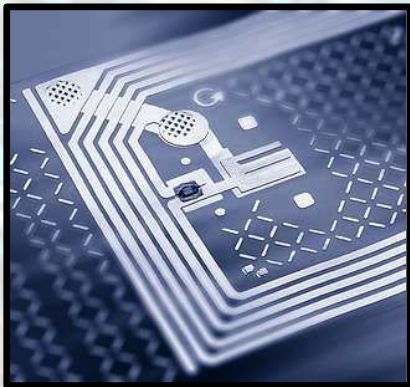


- ↓ Security inks:
- × Covert only
 - × Weak security
 - × Not all food-safe
 - × Easy to replicate

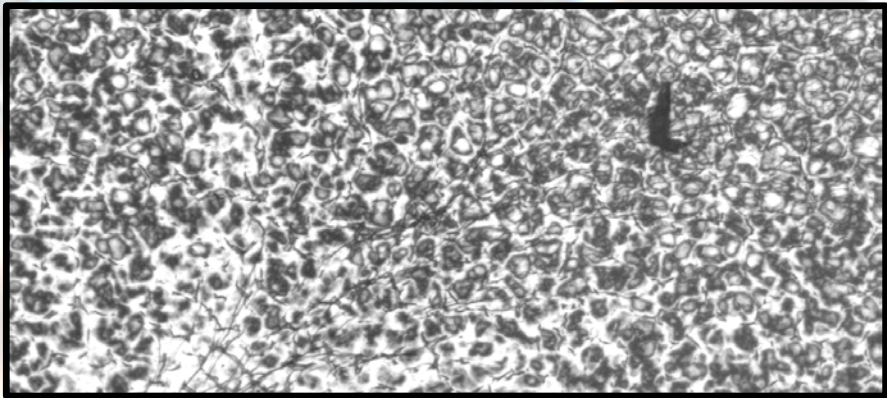


- ↑ Silicon PUFs:
- × Can be cloned
 - × Risk of simulation
 - × Not food-safe
 - × Significant cost

- ↑ Holograms:
- × No individuality
 - × Can be cloned
 - × Not food-safe
 - × No on/off ability



- ↑ Standard taggants:
- × Ease of cloning
 - × Difficult to read
 - × Not all food-safe
 - × Significant cost



- ← Atomically-unique 2D tags:
- ✓ Extreme uniqueness
 - ✓ Minimal size, weight and cost
 - ✓ Covert and overt features
 - ✓ Simple integration
 - ✓ Track-and-trace ability
 - ✓ Likely to be food safe
 - ✓ De-activation if required
 - ✓ Two-way marketing capability