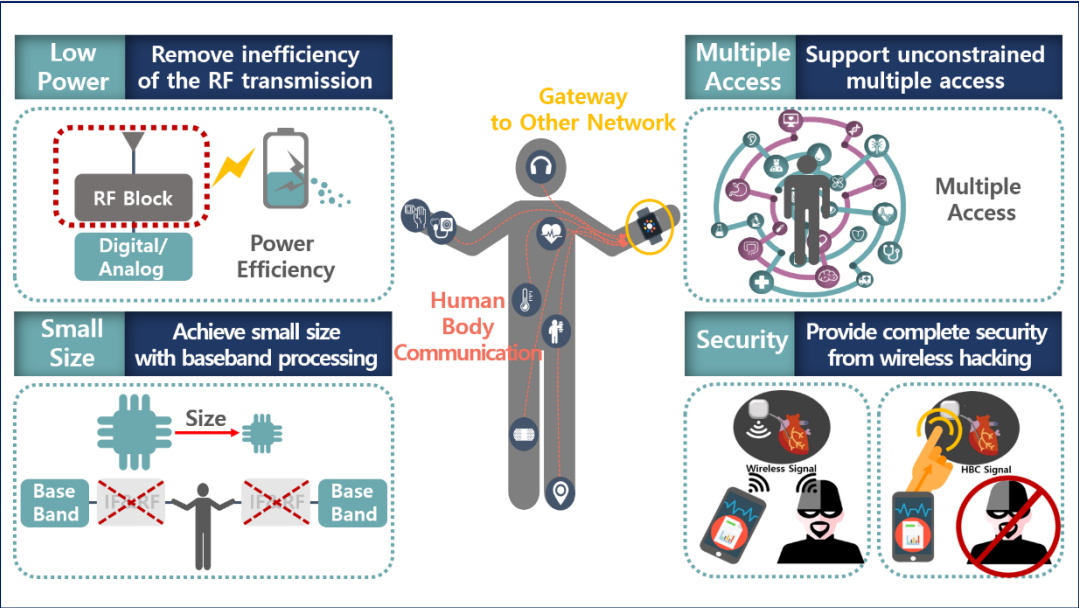


# Human Body Communication (HBC) Technology

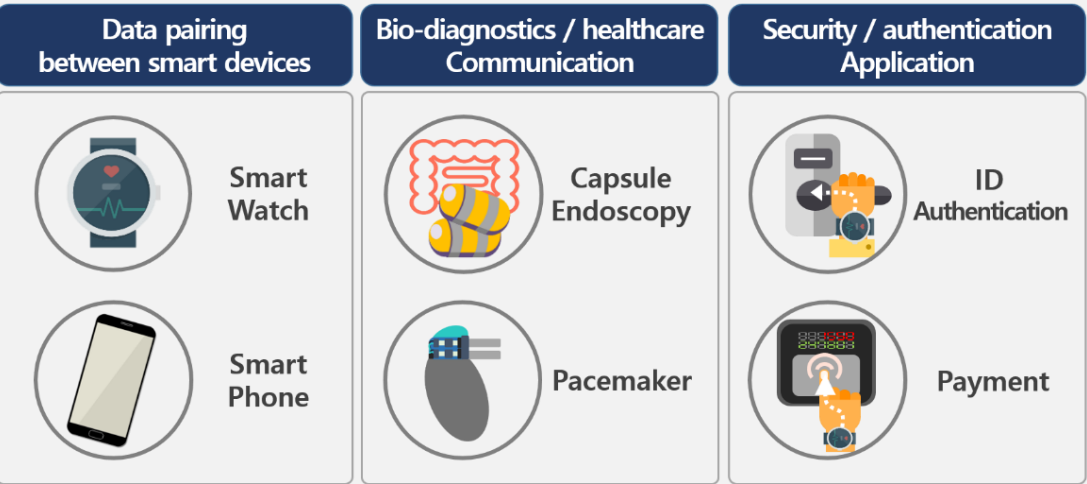


## Technology Summary

- A human body communications (HBC) supports high rate data transmission with low power consumption and high-level security by adopting frequency selective digital transmission (FSDT) technology.
- HBC is a suitable interface for users to form links between wearable / implantable systems based on wireless body area networks (WBANs).
- Wearable / implantable devices with HBC can be easily connected to a host system by a simple touch action, and multiple devices can be accessed to the network unconstrainedly.
- HBC can be applied to various business areas such as bio-diagnostics / healthcare / security / authentication services requiring high level security and long service time.

## Potential Applications

- Wireless data pairing for IT communications devices
- U-health diagnostic service and security/authentication solutions



## Advantages

- High performance with low power consumption, high data rates, and privacy protection over wireless method
- Small size implementation through exclusion of RF modulator using FSDT technology
- Multiple device access for devices for WBAN with simple and intuitive contacts
- Complete security in payment or authentication services and preventing wireless hacking
- Compatible with IEEE 802.15.6 WBAN standards community standard

## Core Patent

- Communication apparatus having human body contact sensing function and method thereof , KR0079960

## Development (TRL : 6)

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## Licensing Contact

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