





1.

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2.

2.1

2.2



1.

...





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’

▪

(IT)

’

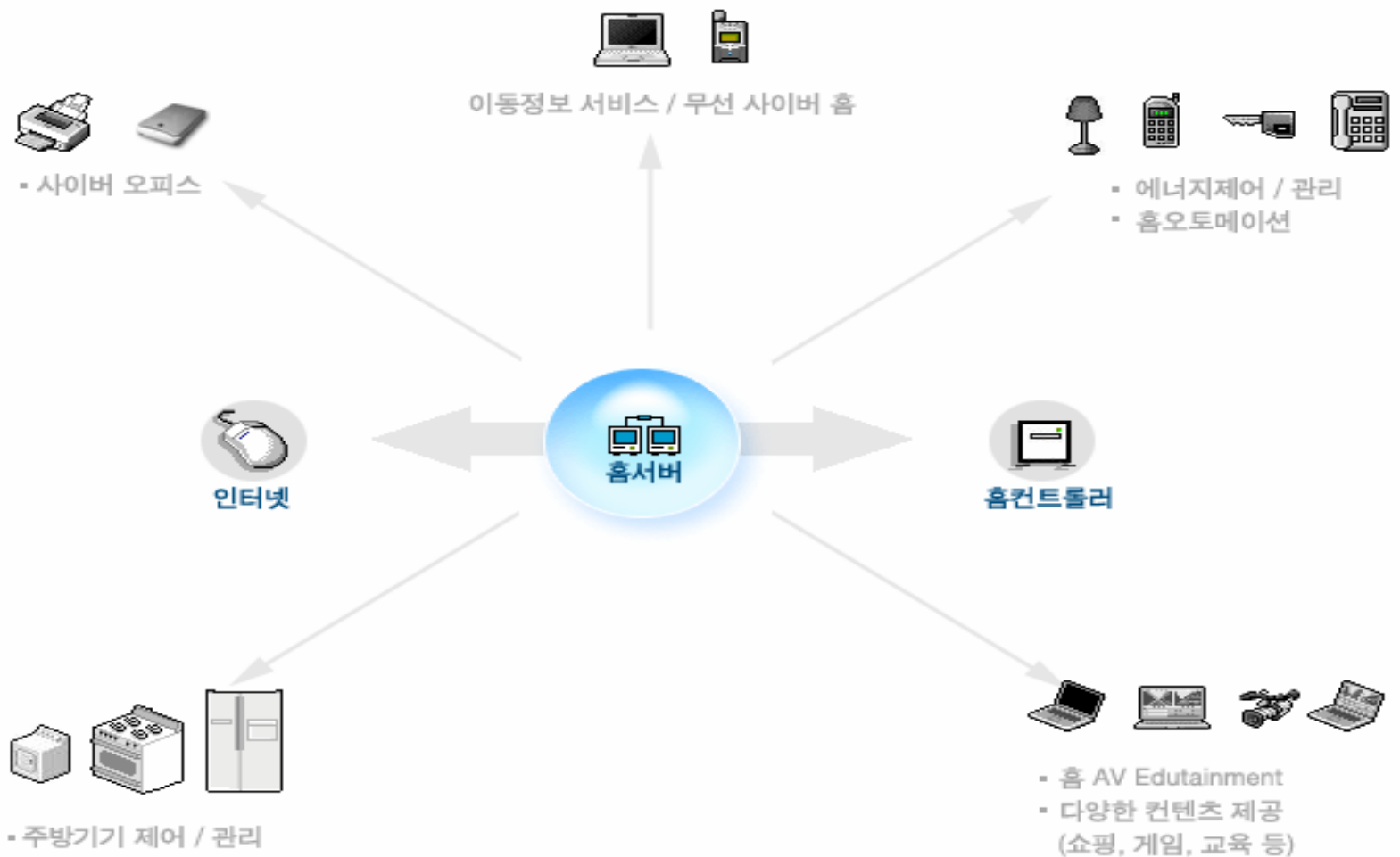
’

▪



2.

2.1





* TV. , , 가 , , , , , , , ,
가 , , , , , , , , , , , ,
가 .



*

*GS



* Intelligent Home Network

*

*



국내

2002년

25억 1000억달러
(2조 7천 5백억)

470%

2007년

117억 9000억 달러
(12조 9천 7백억)

280%

2010년

234억 5000달러
(25조 8천억)



국외

407억달러
(44조 7천억)

250%

1026억 달러
(112조 8천 5백억)

160%

1620억 달러
(178조 2천억)





*

=>

, 가 1300가

200 가 , 2007 1000

가

.

*

(

가 ,

)

*2~3



* 가 .	* (MS) IT .	* , NTT => .



2 5000가

▪



2003

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KT	SK
41 , 700가 ·	39 , 600 가 ·

* KT SK 2

* , , , TV,
·



*

┌ .

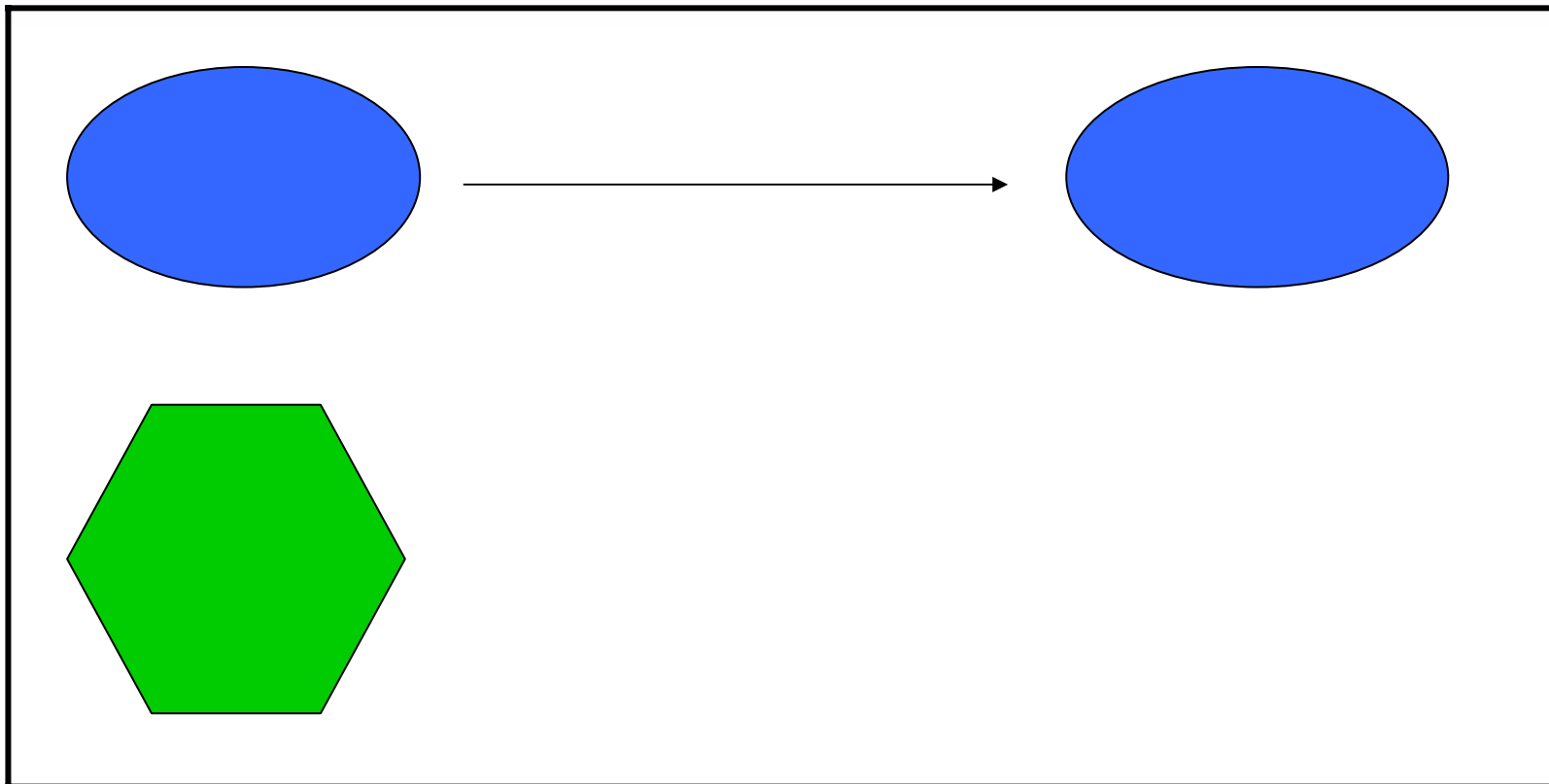
┌ .

- >

&

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=>





“

가

가

”



“

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”

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2.2.



가

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,

,

가 가



1)

*

*

2000
 -> 2019
 가 14%가
 2026
 -> 가 가
 65
 ,
 ,
 ,

2)

의료 서비스

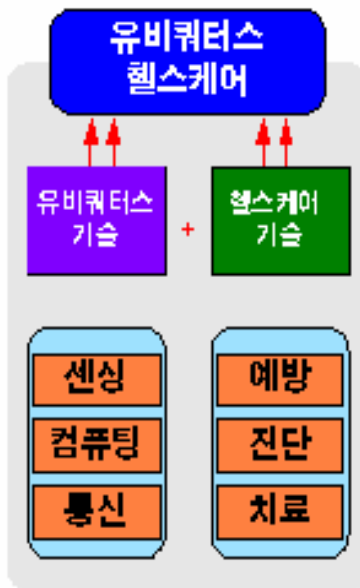
현재



- 특정장소(병원)에 한정
- 의료진 중심
- 대형의 실험실 장비 이용

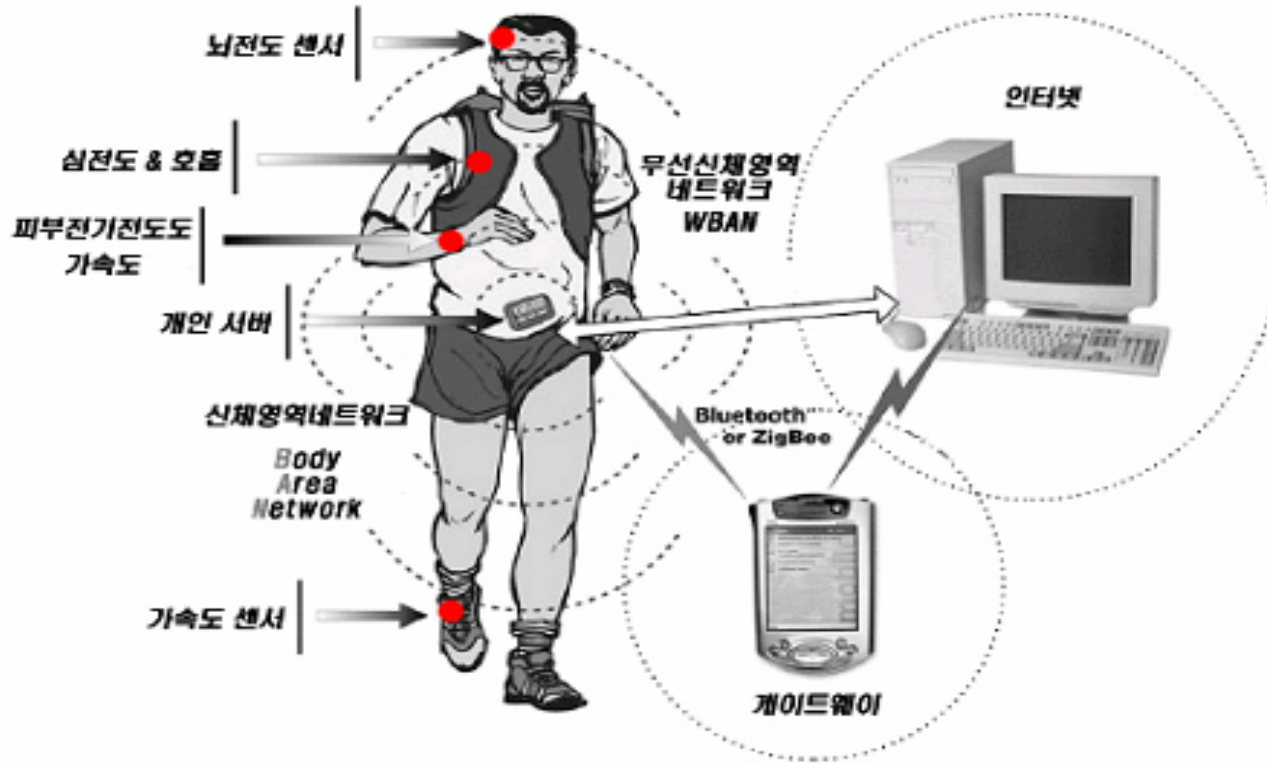


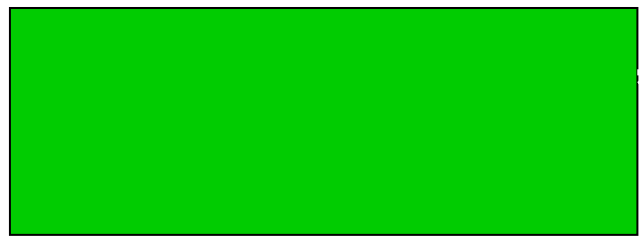
미래



- 때와 장소를 가리지 않음
- 사용자(환자) 친화적
- 소형, 휴대용 기기 이용

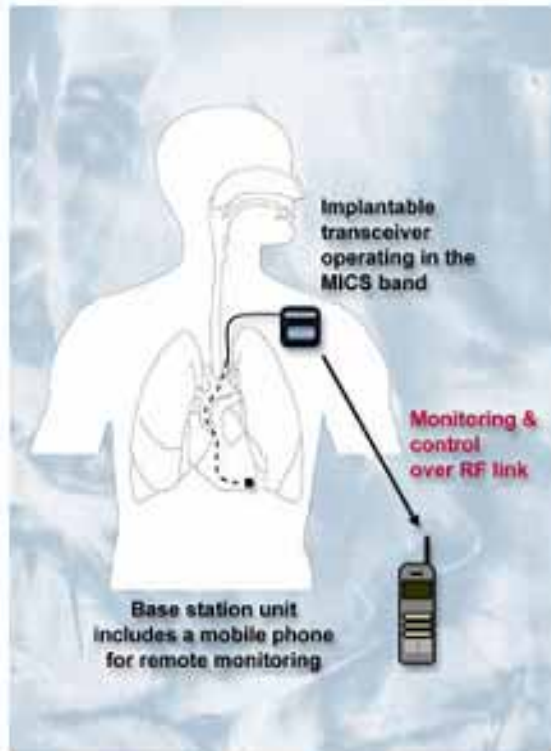
3)





BAN

(Body Area Network)



Enabling "wireless healthcare", Body Area Networks allow implanted medical devices to transmit health and device operating data to a base station over an RF link.





Network)

BAN(Body Area

1.

가

,

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2.

Network)

PAN(Personal Area

.



4)

(Wireless Hospital)

=>

=>

“ ”

“ ”



현재



미래





*

=>

가

가

DB

,
가

PDA

가 .

=>

(data mining)

가

,

가 .



...



*

(1)

(2)

(3)



...

* 24

* 가

* 가 “ ”

=> “Wireless Hospital”

.

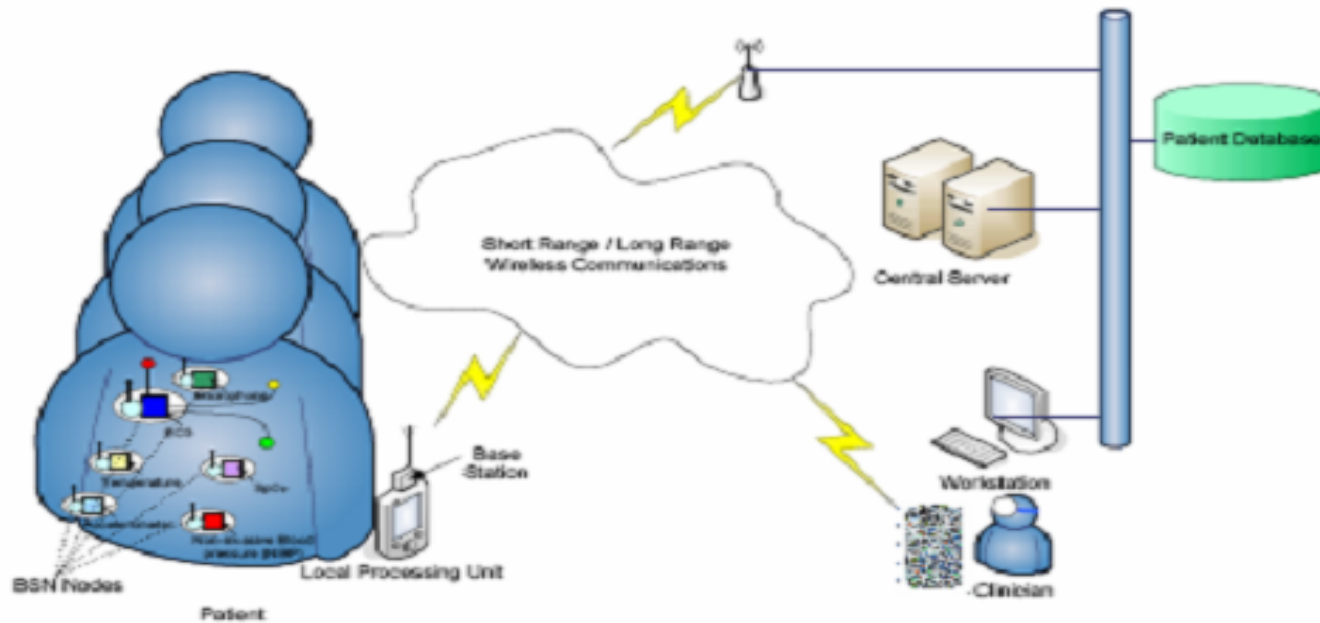


5)

1. "MobiHealth"
2. "CodeBlue"
3. "GMP Wireless Medicine", "HealthFrontier, Inc.". "Nonin Medical, Inc."

.

"UbiMon"



"UbiMon"

(Ubiquitous Monitoring Environment)



Imperial College Ubiquitous Monitoring Environment for Wearable and Implantable Sensors

.



1. Local Process Unit(LPU)

2.

3.

4.

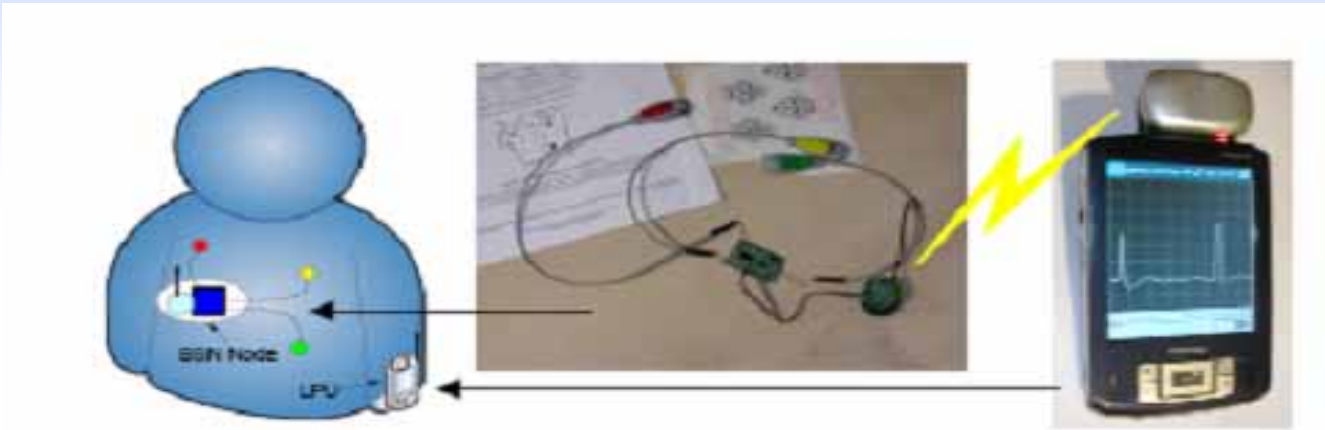
5.



* BSN Node :

*

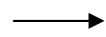
(ECG, SpO2,) .

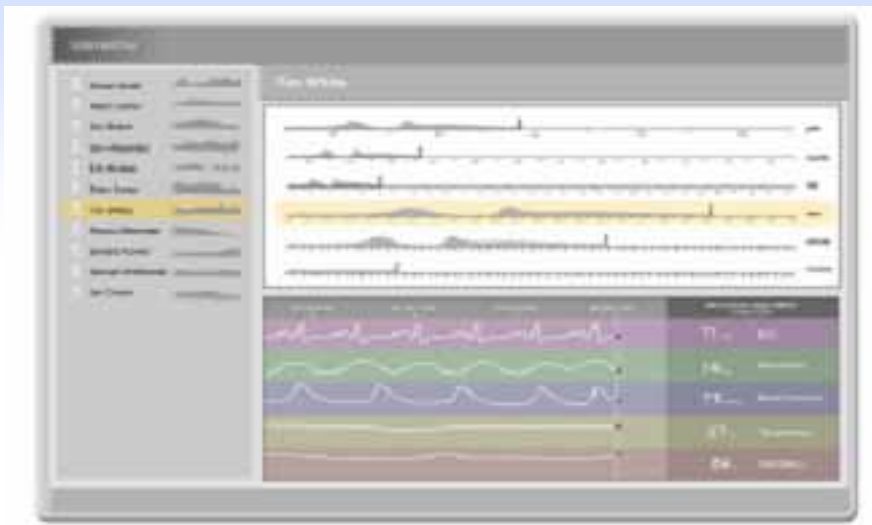


“UbiMon”

BSN

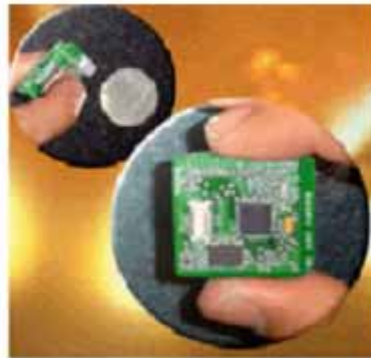
PDA





BSN

(PC)



BSN (26mm²)

가

BSN Node

26mm²

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6)



, , MEK ,

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GL

, 가 , , , , ,

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* , LG

ETRI
, RF

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*

40 ~ 70%

*

가 .



7)

* MEMS

(Multi sensor),
(Wireless sensor),
Wearable Device

* WPAN(Wireless Personal Area Network)
BAN(Body Area Network)

RF 433MHz, 868 MHz,
Zigbee 가



,

=>

“MobiHealth”
“CodeBlue”

가

“GMP Wireless Medicine”,
“HealthFrontier, Inc.”. “Nonin Medical,
Inc.”

.



- * www.homezen.co.kr
- * www.ubiquitousdream.or.kr
- * www.leneco.com
- * <http://ubimon.doc.ic.ac.uk/bsn/index.php?m=192>
- * <http://www.doc.ic.ac.uk/vip/ubimon>
- * <http://www.xi.co.kr>