

[] : IEEE P1451

2006 3 13 15 3 , (, POSTECH)
IEEE (NTC) ' (IEEE Nanotechnology Materials and Devices Conference)' . IEEE

4 NTC가 2001 . .
IEEE .
10
가

가
가 .
가

2006 3 IEEE
가 500 가 ,
가 . ,
가

2004 8 2009 7 5 1104
Project .

Ad-hoc
. IEEE 가 Bluetooth, IEEE 802. 15.4,
Zigbee, P1451.5(Wireless Sensor Interface Standard) .

3 Topology
가 .

1993 IEEE P1451 가
P1451.0~P1451.5 6 . Transducer
Transducer NCAP(Network Capable Application Processor)

가 . Ad-hoc P2P
가

TinySec
SPINS(Security Protocols for Sensor Networks)
TESLA(Timed Efficient Stream Loss-
tolerant Authentication) m-TESLA SNEP(Secure Network
Encryption Protocol) . m-TESLA

SNEP (Freshness) 5~10%

2010 40 (4
8,000 , 1200 /) . MIT AutoID Berkley Smart Dust
(Fushion)

2004 2 가 RFID
. 128bit EPC(Electronic Product Code)
, IPv6
가 3

Sensor Network

Sensor TEDS (Transducer
Electronic Data Sheets) IEEE1451
IEEE802.11 WLAN IEEE802.15.4 WPAN
, 가 IEEE802.-15.4
가 IEEE1451.5 Zig-Bee Alliance

2005 8 22 , IDF 2005

• VoIP

2004 11
IEEE 802.21
2005 5 IEEE
802.21
(LAN),
(WiMAX),
(MIH)
(MMP)
가 IEEE 802.16-2004 2005
10 가 IEEE 802.16e , IEEE
802.11

가

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