ntt∞mit

Project Overview

- Context management in future wireless device networks

- Location-awareness: Cricket system

- Service discovery: Intentional Naming System

- Mobility-awareness: Migrate architecture

- Middleware and protocols for self-configuring mobile networks and context-aware applications

Progress Through December 2000

- Cricket v1 implementation done
  - Position estimation to within few inches

- Migrate architecture developed for *vertical mobility*
  - Code release

- Congestion Manager alpha code release

Research Plan for the Next Six Months

- Planned Cricket configuration

- Scalable peer-to-peer discovery in INS

- Energy-efficiency in Cricket

- Stream redirection application architecture using INS, Cricket, and Migrate

RF (418 MHz)

RS232 chip

PIC microcontroller

Atmel microcontroller

Ultrasound configuration

2.0λ

1.5λ

Clock