

## Smart Dust

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Microchip is committed to **continuous improvement of our environmental performance** through a proactive approach that integrates environmental protection with business goals.

**Smart dust** is a system of many tiny microelectromechanical systems (MEMS) such as sensors, robots, or other devices, that can detect, for example, light, temperature, vibration, magnetism, or chemicals. They are usually operated on a computer network wirelessly and are distributed over some area to perform tasks, usually sensing through radio-frequency identification. Without an antenna of much greater size the range of tiny smart dust communication devices is measured in a few millimetres and they may be vulnerable to electromagnetic disablement and destruction by microwave exposure.

A safe and healthful environment is vital to the attainment of Microchip and no undertaking should be considered so important that it be pursued in an unsafe manner.



**The Role of Networks of Wireless Nano sensors in Precision Farming**

**Wildlife Habitats**

**Geo sensor network application**

**Keyword – Environment and Microchips**