



sensinode

Building the Embedded Web

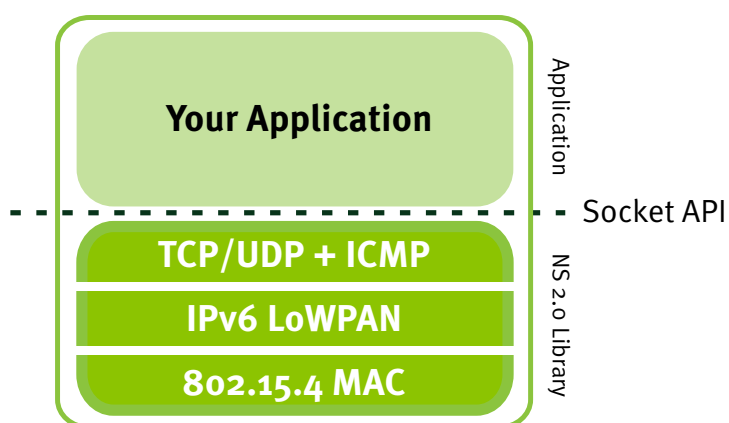
NanoStack™ 2.0 Library for Texas Instruments CC2530

NanoStack™ 2.0 Library for CC2530, featuring cutting-edge technology from Sensinode, enables rapid implementation of an end-user's application combined with IP-based, full scale mesh network capabilities. NanoStack™ 2.0 Library allows end-users to develop their own embedded application for an SoC (System-on-Chip) on top of a built-in 6LoWPAN standards-based network protocol stack for Low-Power RF devices (LPRF).

By linking Sensinode's NanoStack™ 2.0 Library together with your own embedded application code, you have the most sophisticated single chip solution for wireless, low-power networking. With NanoStack™ 2.0 Library you have total control over your code, enabling simple maintenance of your application software in your product development cycle.

Sensinode NanoStack™ 2.0 Library for CC2530 is the most advanced binary library for 2.4 GHz LPRF application developers. Combining small memory footprint, low-cost and low-power, Sensinode NanoStack™ 2.0 Library for CC2530 makes extremely affordable wireless deployments a reality.

CC2530 SoC RF Platform



Key Features

- Hardware Platform:
 - Embedded device SoC: CC2530 RF MCU
 - Access Point: NanoRouter 2.0
- Development tools: IAR Workbench ver. 8.10 (or later) for 8051
- Network layer protocol: 6LowPAN
 - ICMP (Standard based HC and RPL, ND draft version 16)
 - Max packet size: 1280 bytes
 - Routing table size: 40 entries
 - Automatic fragmentation
- Transport layer protocol: TCP/UDP
- RPL routing with storing and non-storing modes
- Security: AES-CCM*
- Socket-API: BSD style socket API for application
- Concurrent sockets: max 5
- Power saving functions

Related Sensinode Products

- NanoRouter 2.0