

C-DAC Zigbee Stack

Every ZigBee Semiconductor manufacturer has developed their customized ZigBee stack for their chips and a specific compiler.

So porting applications from one chipset to another becomes difficult which requires changing all the modules present in the stack. This limits the use of particular chipset for the application.

Using CDAC ZigBee stack, one can port their application from one platform to another just by changing the physical layer of the stack.

Features

- TinyOS-2.x Compliant
- Support for Hardware CC2430, CC2530
- Topology – Star, Cluster Tree, Mesh
- Channel Access Mechanism – CSMA-CA, TDMA
- Self Forming and Self Healing network
- Routing Protocol – Cluster Tree, AODV
- Security – AES (Encryption and Authentication)
- Over the Air Programming
- Persistent Network
- Network Time Synchronization – Time Stamping of packets

Potential Users

The organization/Institution involved in the projects of Wireless Sensor Network for sensing and automation will require the CDAC ZigBee stack for the taking the product faster time to market.

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