

SNS COLLEGE OF TECHNOLOGY



Coimbatore-35
An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

19EET304/ IOT for Electrical Sciences

III YEAR VI SEM

UNIT 3 COMMUNICATION INTERFACE

TOPIC 2 - PLC, ZIGBEE, GSM, LOCAL AREA NETWORK (LAN)







PROGRAMMABLE LOGICAL CONTROLLERS

Programmable Logical Controllers (PLCs) are present in almost all modern industries. Although they come in many shapes and forms, they have one goal: to control, measure, and carry out tasks in real-time within complex industrial applications.

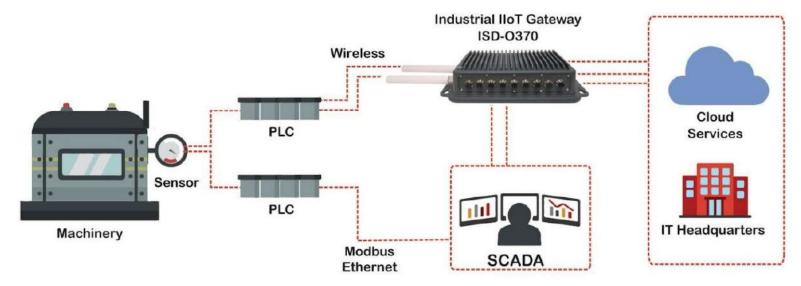






INTEGRATING PLC WITH IIOT WITH INDUSTRIAL IOT GATEWAY

Integration of PLC with Industrial IoT



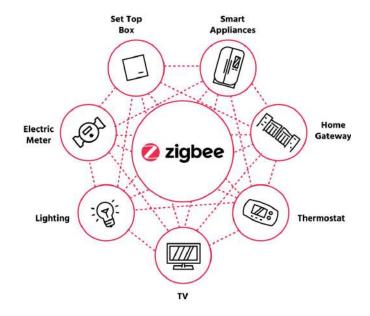




WHAT IS ZIGBEE?



ZigBee is a wireless technology standard that provides a set of communication protocols for short-range communications. It is an open-source global standard developed by Zigbee Alliance to address the needs of low-cost, low power wireless IoT networks. The protocol is used in low data rate, short to medium range wireless networking devices like senors and control networks.



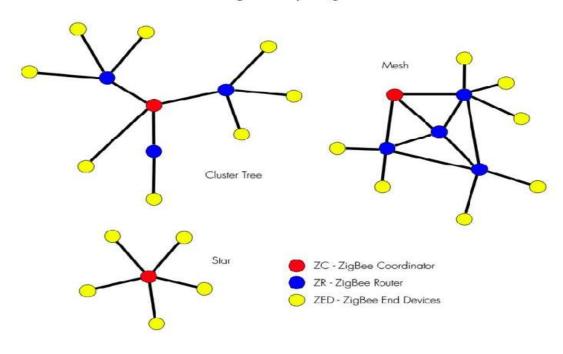






ZIGBEE TOPOLOGIES

ZigBee Topologies



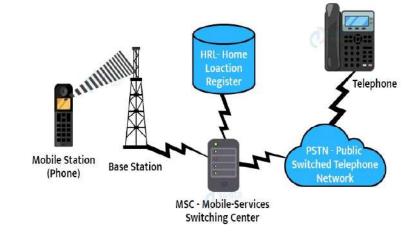




WHAT IS GSM FOR IOT?



GSM is currently the most widely used network technology in Internet of Things (IoT) applications for its simplicity, low complexity cellular communications for IoT devices in a way that conserves energy

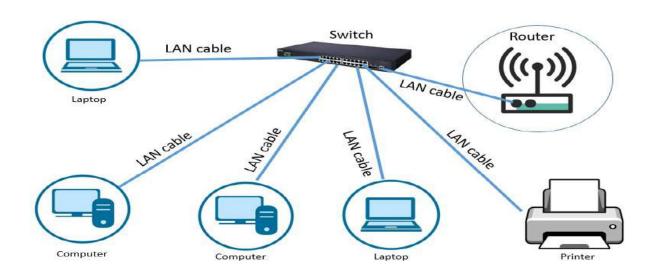






LOCAL AREA NETWORK





Local Area Network





References



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