

The logo for GadgEon, with 'Gadg' in blue and 'Eon' in orange.

Engineering Smartness

REALIZATION OF WIFI MESH USING OPEN SOURCE

April 2020

Version 01



Realization of WiFi Mesh using Open Source Components



A US based startup in Wireless Mesh technology, was looking for the realization of Embedded Wireless Mesh Networking Element using off-the-shelf Hardware components and open source Software components.

Solution Description

- Build OpenWRT distribution for Aaeon TF-GENE-TC05-A10 along with LUCI web GUI using GNU tools
- Enabled, Configured and Tested WAN port, LAN port, DHCP-Server, DHCP-Client, Port forwarding, VPN, USB 3G modem using LUCI web GUI
- Integrated drivers for Wireless module RA-71A radio card. Configured and Tested the Access Point functionality
- Integrated drivers for mini-box openUPS hardware board and tested the battery charge status using Nut driver
- Integrated 802.11s open-mesh BATMAN implementation. Configured and Tested the mesh functionality.
- Technology: OpenWRT, 802.11s (open-mesh BATMAN), openUPS, LUCI web GUI

Outcome and Benefits Delivered

- Embedded Wireless Mesh Networking Element was developed, tested and released

THANK YOU



For More Details, Let's Connect



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