



BROADBAND WIRELESS ACCESS SYSTEM

Wireless Empowered

MicroRed Mesh Outdoor AP

For outdoor Mesh Network Deployment with Mobile IP, QoS & IAPP

MicroRed Mesh Metropolitan Area Network solution extends the capability of WiFi Local Area Network technologies (IEEE802.11) from providing just local area network connectivity to a wider reach for “wide-area” coverage without messy wiring and wired backbone connection. MicroRed Mesh Metropolitan Area Network is designed for Enterprises as well as Residential (End-User) to have wireless broadband connectivity, with security, management and mobility taking into consideration.

MicroRed Wireless Mesh Network solution addresses the market requirements for networks that are highly scalable and self configurable, offering end users secure, seamless roaming beyond traditional WLAN boundaries and provides easy deployment in areas that do not (or) cannot support a wired backhaul. MicroRed Mesh solution is well-suited for providing broadband wireless access in areas that traditional WLAN systems are unable to cover.

The fundamental Network architecture of MicroRed Mesh Wifi is given in Figure-1, and is built upon Dual-Radio Access Point, where one of the Radios serves as the backbone network infrastructure for Internet routing protocol, and the 2nd Radio forms the end-user up/down stream wireless link.

MicroRed Wi-Fi Mesh includes point-to-point and point-to-multipoint architecture with integration of routers, security features & adaptive backhaul routing algorithm & mobile IP for providing both Internet Access and Wi-Fi VoIP applications.





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Key Features

Internet & Access Features

- Compliance with IEEE802.11b/g/a standard with 100mW transmission
- DHCP Server/Client, DNS Router, SNMP, VPN, NTP and Remote Syslog
- Customizable Firewall, WEP, WPA, Zero-Configuration with Adaptive DNS
- HTTP/HTTPS Secured Login, PPPoE and Access Control List Support.

Service & Management Features

- Support SNMP V1,2,3 and Integrated with Garuda Network Management Suite
- Support up to 250 users simultaneously with both LAN and WLAN interface.

Advanced Features

- Mobile IP (with Mobile Location Register Server), IAPP, VPN Server,
- Built-in with QoS and traffic shaping mechanism for channel traffic control for individual user, and applications, and Compliance with iPass International Roaming
- MicroRed Optimal Link State Routing (MTOLSR) Protocol
- IP 67 rated



Principal Member



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Specifications

| | |
|--|---|
| Model | MicroRed Mesh |
| Hardware | Intel® IXP425 highly integrated & versatile single-chip Network processor |
| WLAN Standard | IEEE802.11b/g (Client) or IEEE802.11b/g/a (Backhaul) |
| Frequency Channels Support (Client Mode): | Depending on Countries Channel assignment IEEE 802.11b/g, USA and Canada – 11, Most European countries – 13 Depending on Countries Channel assignment IEEE 802.11b/g USA and Canada – 11 Most European countries – 13 France – 4 Japan – 14 |
| Frequency Support (Backhaul): | Depending on Countries Channel assignment IEEE 802.11b/g (2.4GHz) IEEE 802.11a (5.8GHz) |
| Data Rate 11Mbps, 54Mbps with Dynamic fallback | |
| Antenna | 12dBi Omni or Directional Antenna |
| Receiver Sensitivity | -98dbm @ 1Mbps and -91dBm @ 11Mbps |
| Protocol | IP, NAT, DHCP, NTP, PPPoE, DNS |
| Security | WEP, AES, IEEE802.1x, WPA1/2, Firewall & VPN (PPTP, L2TP & X.509) |
| Authentication | HTTP/HTTPS Login with SSL Encryption, 802.1x and AAA RADIUS |
| EIRP | 36dBm |
| Services | Zero-Configuration, Proxy bypass, DNS feed through, Mobile IP, IAPP, QoS and 200kB Internal Web Space, Free Web serving for “Specific Area” |
| System Operating Mode | Gateway Relay (Note 1) |
| Management | NMS, Local/Centralize Web based Configuration, SNMP V1/2/3, AP Discovery, Remote Syslog and Remote Firmware Upgrades |
| Ports WAN/LAN | 1 x 10/100 BaseT, Auto-Negotiation |
| WLAN Standard | IEEE802.11b/g (Client) or IEEE802.11b/g/a (Backhaul) |
| LED Indicators | Power, LAN, WAN & WLAN |
| Temperature Range | 0 ~ 40°C (Operating), -20~70°C (Storing) |
| Humidity | Max. 95% Non-condensing |
| Emission Control | FCC Part 15 and CE |

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*All Product information is subject to change without any notice