



| | Cyclone ² Mesh | Cisco Aironet 1500 | Tropos 5210 | Strix OWS 2400 | Skypilot Dualband Extender | Firetide 3203 & 4000 |
|----------------------------|----------------------------------|--|------------------------------|---|---|---------------------------------------|
| Radio Architecture | Dual radio | Dual Radio | Single Radio | Multiple Radios | Dual Radio | Dual Radio - two enclosures |
| AP Radio | 802.11b/g | 802.11b/g | 802.11b/g - shared with Mesh | 802.11b/g | 802.11b/g | 802.11b/g separate enclosure |
| AP Radio sensitivity | 97dBm @1Mbps | 91dBm @ 6Mbps | 100dBm @ 1Mbps | 98dBm @ 1Mbps | 98dBm @ 1Mbps | 96 dBm @ 1Mbps |
| Mesh Radio | 802.11a | 802.11a | 802.11b/g - shared with Mesh | Multiple 802.11a point-to-point radios | 802.11a with 8 antenna array | 802.11a |
| Mesh Radio Tx/Rx | 26dBm Tx / 94dBm @ 6Mbps Rx | 26dBm Tx / 91 dBm @6Mbps Rx | 24dBm Tx / 94dBm @ 5.5Mbps | 26dBm Tx / 93dBm @ 6Mbps Rx | 30dBm Tx / 90dBm @ 6Mbps Rx | n/a Tx / 92dBm @ 6Mbps Rx |
| Mesh Routing | Layer 3 - self routing | Layer 2 - requires dedicated controller per 16 devices | Layer 3 - self routing | Layer 2 - requires controller | Layer 2 - Requires 3 devices - SkyGateway, SkyExtender, SkyExtender with AP | Layer 3 - self routing |
| Self-assembling network | yes | requires central controller | yes | requires central controller and manual installation | Manual configuration | yes |
| Hops supported | >5 | >5 | 2 | >5 | >5 | >5 |
| QOS / TOS | 802.11e (WMM) all network layers | 4 priority levels into AP only | no | 4 priority levels into AP only | Layer 2 802.1p, 3 classes | Layer 2 802.1p, 3 classes |
| Traffic shaping | multiple layers per ESSID | n/a | n/a | n/a | | |
| SNMP interface | yes | yes | yes | yes | yes | yes |
| Session-persistent Roaming | network wide | yes | yes | intra-cluster | no | no |
| Element Manager - GUI | yes | yes | yes | yes | yes | yes |
| Dimensions | 7.2"X5"X1.9" | 15"X7.3"X5.7" | 13"X8"X5.3" | 12"X10"X6" | 33"X12.2" (diameter) | 9.8"X7.8"X2.7" Mesh 11"X8.5"X2" AP |
| Weight | 3.25lbs | 10lbs | 14lbs | 14.51lbs | 15lbs | 4.85lbs Mesh + 4.8lbs AP |
| Power (max) | 12W | n/a | 18W typical | 30W to 65W | 20W | 14W Mesh + 11W AP |
| POE Sync | yes - 28V | | | no | no | no |
| POE Source | Canopy compliant and 802.3af | n/a | option | n/a | n/a | n/a |
| Battery backup | Option | n/a | option | n/a | n/a | n/a |
| GPS option | Option | n/a | n/a | n/a | n/a | n/a |
| Operating Temperature | -40C to +55C | -40C to +55C | -40C to +55C | -40C to +55C | -40C to +55C | -20C to 55C |
| List Price | \$2,895 | \$3,500 + antennas + \$8,000 controller per 16 nodes | \$3,500 | \$4,500 + | \$3,499 - \$4,799 | \$1,995 Mesh + \$1,000 AP |

Notes

The Cyclone² Mesh optimizes the range from clients to the AP and the mesh radio range.

The Cisco Aironet 1500 is a dual radio, layer 2 device. Layer 2 means it is a simple switch which requires an additional controller in the network. The price for this controller is highly dependant on the number of nodes it manages.

We have been told antennas are sold seperately and this is a very difficult system to install

The Tropos 5210 is a single radio shared between the access point and mesh backhaul. The shared radio not only greatly reduces the bandwidth available, it limits the number of hops supported and causes latency unacceptable for VoIP.

The Strix OWS 2400 is a layer 2 device requiring a controller per mesh cluster (integrated into each device).

The directional antennas are costly and makes it difficult to intall the network. As in all mesh networks, the limiting distance is from the client to the AP. The mesh radio complexity is overkill.

The Skypilot SkyGateway, SkyExtender, and SkyExtender DualBand is a layer 2 system requiring the gateway to provide the routing.

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The Firetide 3203 is a layer 3 mesh radio which requires the 4000 AP. Other than the separate enclosures, this is the closest product to the EnRoute500