

802.11a/b/g Indoor MESH Access Point – Layer 2



For truly Wireless network connectivity, PLANET Mesh Access Point, MAP-3120, is designed with IEEE 802.11a/b/g standards and addressed on providing a high performance mesh network. It provides local wireless connectivity at any location over a self-adaptation mesh backhaul. All mesh nodes can operate at 2.4GHz for long range and better penetration, or at 5GHz to minimize the frequency interference. The detachable antennas design allows users to use proper antennas for various deploying requirements.

Though there are multiple interfaces (LAN, WLAN, Backhaul) integrated in MAP-3120, they are all bridged with one single IP. This is layer 2 operation. The layer 2 infrastructure is suitable for smaller scale mesh network. Comparing with layer 3 operation, the configurations and installations of a layer 2 infrastructure will be simpler and easier. Without the extra resource consuming on routing, the overall performance of layer 2 operation is better than layer 3 operation.

To facilitate the administration task throughout the mesh network, PLANET provides a centralized managing software: MAP Management System. This software is built based on SNMP protocol and can be installed in a computer. After launching, this software can locate and monitor all MAP-3120 in the same network. The graphical interface allows administrator to understand the whole network status in seconds.

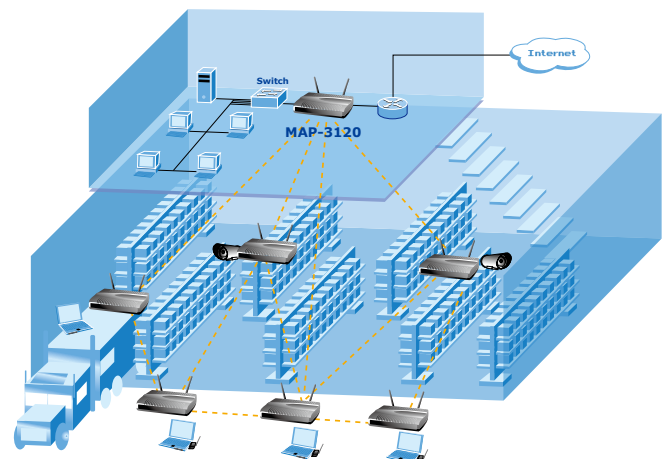
KEY FEATURES

- Dual wireless interfaces for independent Backhaul link and local clients connection
 - 2 x IEEE802.11a/b/g adapters
 - 2 x reverse SMA connector
- Completes AODV (Ad-Hoc On Demand Vector) routing (layer 2) between all node APs
- Adjustable output power
- Central management software
 - AES backhaul communication
- IEEE 802.1q VLAN, multiple VLAN/SSID supports
- IEEE 802.1x, IEEE802.1i WPA/ WPA2, and VPN pass-through mechanisms
- Supports Wireless Separation, Watchdog mechanism
- Supports SNMP v2c, v3
- IEEE 802.3af Power over Ethernet capable

APPLICATIONS

Enterprise / Warehouse Deployment

Each MAP-3120 forms an individual operational node, and it will automatically locate and associate to the existing Mesh network. Deploying with single IP segment, the MAP-3120 form a Layer 2 mesh network, which is easy to install and manage. As more equipments installed, the infrastructure can be expanded more flexible and easier. Thus it makes the perfect solution for medium scale deployment (less than 250 users), such as warehouses, and the Enterprise buildings.



SPECIFICATION

Product	802.11a/b/g Indoor MESH Access Point – Layer 2
Model	MAP-3120
Wireless LAN	
Wireless Standard	IEEE 802.11a IEEE 802.11b/g
Media Access Protocol	CSMA / CA
RF Modulation	802.11a: OFDM 802.11g: OFDM 802.11b: DSSS
Data Rate	802.11b: 11 / 5.5 / 2 / 1Mbps, Auto 802.11a/g: 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6Mbps, Auto
Transmit Power	20dBm max. Transmit Power levels adjustable
Sensitivity	802.11b: -95dBm @1Mbps -94dBm @2Mbps -92dBm @5.5Mbps -90dBm @11Mbps 802.11g -90dBm @6Mbps -89dBm @9Mbps -87dBm @12Mbps -85dBm @18Mbps -82dBm @24Mbps -79dBm @36Mbps -76dBm @48Mbps -74dBm @54Mbps 802.11a -88dBm @6Mbps -87dBm @9Mbps -85dBm @12Mbps -83dBm @18Mbps -80dBm @24Mbps -75dBm @36Mbps -73dBm @48Mbps -71dBm @54Mbps
Operating Channels	802.11a: 12 channels 802.11b/g: 11 / 13 / 14 channels
RF Connector	2 x Reversed SMA (WLAN1 / WLAN2)
Operating Mode	System Layer 2 Gateway Layer 2 Relay WLAN1 Backhaul mode WLAN2 AP mode
Infrastructure Type	Layer 2 Repeating
Auto-Channel Selection	Yes
WLAN Security	WEP-64/128, WPA, WPA2
Hide SSID	Yes
Wireless Separation	Yes
Ethernet	
Ethernet Standard	IEEE 802.3, IEEE 802.3u, 10Base-T, 100Base-TX IEEE 802.3af Power over Ethernet
Operating Mode	LAN x 5, local service
Ethernet Connector	10/100Base-TX, auto-negotiation IEEE 802.3af compliant for Public and LAN #1 ports (end-span device, powered via wire 1, 2, 3 & 6)

Software

Device Management Method	HTTP / HTTPS Windows Management Utility SNMP v2 / v3, Trap Firmware upgrade via utility / HTTPS Syslog
Windows Management Utility Features	Mesh AP discovery Mesh AP status Mesh AP setup, upgrade, reboot, reset User status, activity
Supported User Amount	Per cluster up to 250 users
User Authentication	HTTP login HTTPS login 802.11i (WAP, WPA2) 802.1x (EAP-TLS / TTLS) 802.1Q VLAN, multiple VLAN / SSID client access Remote RADIUS server authentication Real time status display on Web / Syslog / Utility
Watchdog	System Watchdog

Protocol Compliance

Protocol / Standard	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.11a (5GHz WLAN) IEEE 802.11b/g (2.4GHz WLAN) RFC 768 UDP RFC 791 IP RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 1034, 1035 DNS RFC 1058 RIP RFC 1119 SNTPv2 RFC 1541 / 2131 / 3046 DHCP client / Server RFC 1631 NAT RFC 2068 / 2616 HTTP RFC 2865, 2866 RADIUS
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Hardware

Dimension (W x D x H)	184 x 142 x 36 mm
Weight	435g
Power Requirement	12V DC, 1A
Environmental Specification	Operating Temperature: 0 ~ 50 Degree C Storage Temperature: -10 ~ 70 Degree C Relative Humidity: 0 ~ 90% non-condensing
Regulatory Compliance	FCC, CE

ORDERING INFORMATION

MAP-3120	Layer 2 Indoor MESH AP; 2 x RF (802.11a/b/g), PoE
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