



AP 6511 802.11n Wall Plate Access Point

Powerful Wi-Fi for hotels, dormitories, hospitals and other multiple dwelling units that is fast and easy to deploy and manage



Conventional access points (AP) can be challenging to deploy in the hallways of multiple dwelling units and require careful planning, drilling holes, pulling cable and installing ceiling brackets. In addition, high attenuation factors obstruct hallway APs including fire walls, mirrors, plumbing, and bathroom tile. The AP 6511 can be installed in the guest room in minutes, not hours, by standard service personnel using existing CAT5/6 cabling in the walls. The product's sleek "hide in sight" design and small size matches the décor of any room. The universal mounting bracket can be installed on any wall surface or a structured wiring telecom box in minutes.

Features/ Benefits

Powerful

802.11a/b/g/n,
2x2 MIMO, 26dBm

Fast

Snap-on install in minutes

Easy

Self optimizing
virtual controller

Sleek Design

Low-profile, modular design enables a guest room wireless LAN without disrupting operations.

Multiple Dwelling Unit (MDU) Design

Unique design and deployment provides better coverage in MDUs such as hotels. Centrally manage the network from a cluster manager, RF controller, or AirDefense Services Platform

Cluster Manager

Manage a network of up to 25 AP 6511s from the native controller code integrated into the APs. Automatic cluster manager election, or administrator selection.

Operation Flexibility

The native SMART RF feature continually tunes power and channels to ensure top performance without operator intervention. In addition, failover is seamless and automatic, as user sessions will move to functioning access points that adjust their power to compensate for the loss of a neighboring access point. The 802.11n MIMO technology along with Motorola's optimized radio design covers six to ten rooms from any CAT5/6 wiring location. The AP 6511 supports all current 802.11a/b/g/n devices with role based access control, 802.1x on wireless and wired ports, fast roaming, WMM QoS, intrusion prevention, and other enterprise WLAN services.

Modular Flexibility

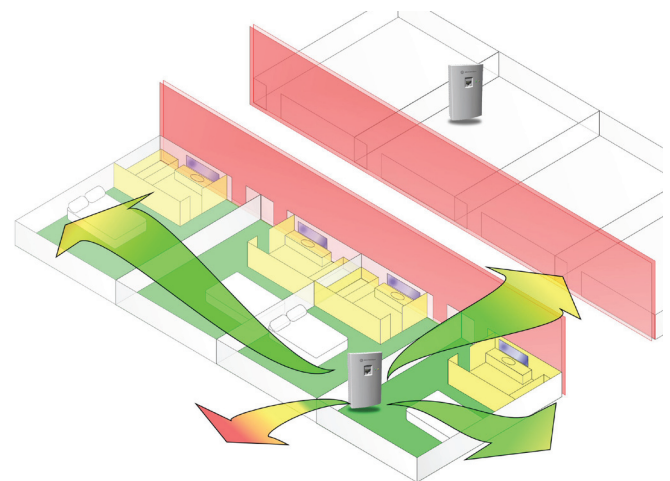
The AP 6511 features a snap-in port for any keystone style connector (e.g. RJ11 or TV coax), so multiple services can be supported on a single integrated AP 6511. Because guest rooms often require additional Ethernet ports for voice service, minibar monitoring or even guest wireline, a snap-on three-port Ethernet module is available to easily expand the number of available ports. The rapid installation is predictable and repeatable across multiple properties. Rapid and convenient installation provides predictable performance to dramatically lower deployment costs.

Architecture Flexibility

The AP 6511 includes self optimizing intelligent controller AP code, so any single AP 6511 can serve as a master for up-to 25 AP 6511 access points. Small properties and facilities will have all the benefits of a centralized RF controller - automatic adoption and centralized configuration - without the cost of a dedicated switch. And because the operating system is Motorola's Wi-NG, it can

be managed by the RFS series of controllers for very high scalability (thousands of APs), simplified management, and seamless wireless networks, including the Motorola indoor and outdoor access points.

Each radio in an AP 6511 can be repurposed as a sensor for AirDefense connectivity troubleshooting and spectrum analysis in realtime, so the level-1 technician in the network operations center can immediately respond to user issues and provide highly useful, real-time troubleshooting without the expense of placing separate, fixed sensors.



Hallway Installed AP

Extensive Planning Disruptive
Installation Expensive cable pull

Guest Room Installed AP

Rapid Deployment
Uses Existing CAT5/6 Cabling
Integrated Controller

Available Interfaces

Wireless Interface:	Single radio; 802.11a/b/g/n; 2.4Ghz or 5.2Ghz
LAN Ethernet port:	IEEE 802.3 10/100Mb auto-sensing via 8-pin header
Uplink LAN Ethernet:	IEEE 802.3 10/100Mb auto-sensing
Snap-in port:	Supports any Keystone or QuickPort® style connector

Wireless Specifications

Medium:	DSSS, OFDM, MIMO
Standards:	802.11a, 802.11b, 802.11g, 802.11n
Data Rates:	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6,9,12,18,24,36,48, 54Mbps 802.11a: 6,9,12,18,24,36,48, 54Mbps 802.11n: MCS 0-15 up to 300Mbps
Operating Channels:	2.4GHz: Chan 1-13 (2412-2472 MHz) 5.2GHz: All channels from 5150 MHz to 5850 MHz Actual operating frequencies depend on national regulatory limits
Transmit Power: settings	6dBm to 20dBm, in 1dB increments; Actual Tx power dependant on national regulatory limits
Receiver Sensitivity:	802.11b, 1Mb, -93dBm; 802.11g, 54Mb, -78dBm 2.4GHz: 802.11n, MCS15 40Mhz, -69dBm 802.11a, 54Mb, -79Bm 5.2GHz: 802.11n, MCS15 40Mhz, -69dBm
Antenna Configuration:	Two internal omni-directional, 3.5dBi peak 1x2 or 2x2 MIMO operation

Note: Transmit power and receiver sensitivity are based on preliminary engineering tests. Specifications are subject to change.

Ordering Information

AP-6511-60010-US	Single radio 802.11a/b/g/n WallPlate AP. Low profile. One Ethernet PD uplink port, one FE LAN port included. Optional Ethernet Module. Cluster Manager included. US-only version supports FCC channel set.
AP-6511-60010-WR	Single radio 802.11a/b/g/n WallPlate AP. Low profile. One Ethernet PD uplink port, one FE LAN port included. Optional Ethernet Module. Cluster Manager included. WR version supports individual country channel sets as required.
KT-6511-0000D-WR	Three port Fast Ethernet Module for AP-6511

WLAN and Networking

BSS:	8 BSSIDs, 16 SSIDs
Virtual AP:	Beacon en/dis, client isolation, SSID, auth, enc, bitrate, VID
VLANs:	4000 VLANs; VIDs 1 - 4095

Security

AP Mgmt:	Encrypted management protocol
WLAN:	WEP static, WEP Dynamic (802.1x) WPA/TKIP Personal and Enterprise WPA2/TKIP/AES Personal and Enterprise, all EAP types

Power

AP+1 LAN port	~6.5W typical, AP+4 LAN ports ~9W
802.3af compliant uplink LAN port or 48V external power supply	

Physical

5" x 2.95" x 1" (12.8cm x 7.5cm x 25.4cm). 12oz (0.34Kg)
Two single color status LEDs; power, error, packets, operating frequency

Environmental

0 - 40 degrees Celsius, 5% to 90% NC

Mounting

Universal mounting bracket for worldwide telecom plates; mounting options include
over a telecom wall plate or flush surface mount

Compliance

FCC 15.247, 15.407 / EN300 328, EN 301 893
UL EU EN 60950-1 2nd Ed., ANZ C-Tick
FCC Part 15 Subpart B, EN 55022: 2006 + A1: 2007 , ICES – 003 (Class B) EN 55024: 1998 + A1: 2001 + A2: 2003
EU RoHS Directive 2002/95/EC
CE, IC, FCC, TELECOM



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