SAMSUNG
WIRELESS ENTERPRISE
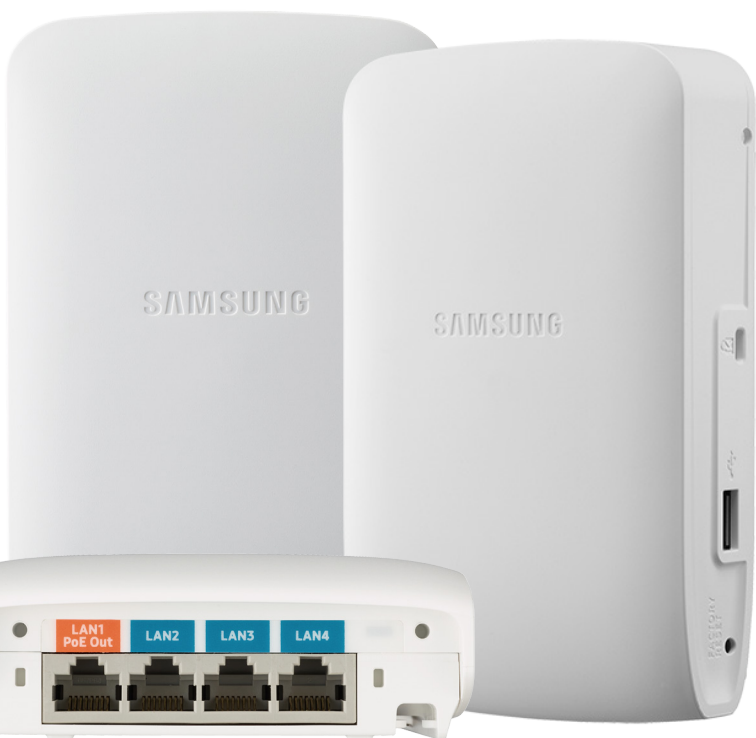
Enabling convenience and high speed Wi-Fi in hotel rooms, dorm rooms and other multi-dwelling units

WEA412h
Wall Plate

OVERVIEW

The WEA412h Wall Plate is a small footprint, cost effective Wi-Fi access point providing simple in-room high-speed connectivity. Unobtrusive and compact, Samsung's WEA412h 802.11ac Wall Plate AP was purpose-built for hospitality – hotels, dorms or other multi-dwelling entities. It's easy to install and connects to the existing CAT 5/6 Ethernet cable, eliminating the need to pull extra cables.

With multiple ports connecting everything from hospitality TVs to guest devices, Samsung's WEA412h 802.11ac Wall Plate ushers in the next generation of Wi-Fi for multi-dwelling units, offering higher throughput, more capacity, and less interference. As with the all of the WEA400 series of access points, the WEA412h Wall Plate is dual concurrent and runs in both the 2.4 or 5GHz band.

Key features

Wired / Wireless room infrastructure
- Convergence of 802.11ac AP and 4 Gigabit Ethernet switch ports
- Supporting 802.11i for wireless and Port/MAC based 802.1X for wired areas
- Affordable and high performance (Enterprise-grade function)

Installation / Management suitable for guest rooms
- Supporting gang-box bracket and wall-surface bracket
  - Easy installation with sliding mount and automatic configuration using a USB
- Wide beam pattern suitable for guest rooms
- Automatic on/off function based on time schedule & presence for energy savings

Valued Service
- USB 2.0 (A type connector) for IoT support (BLE dongle)
- Supports interoperability of Samsung's Building IoT server

LAN1 PoE Out **LAN2** **LAN3** **LAN4**

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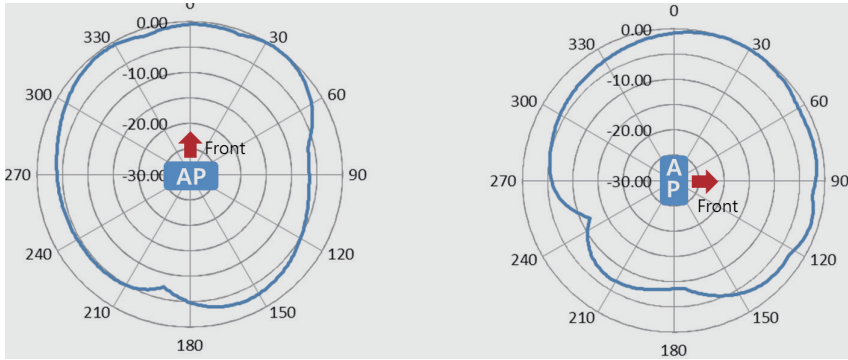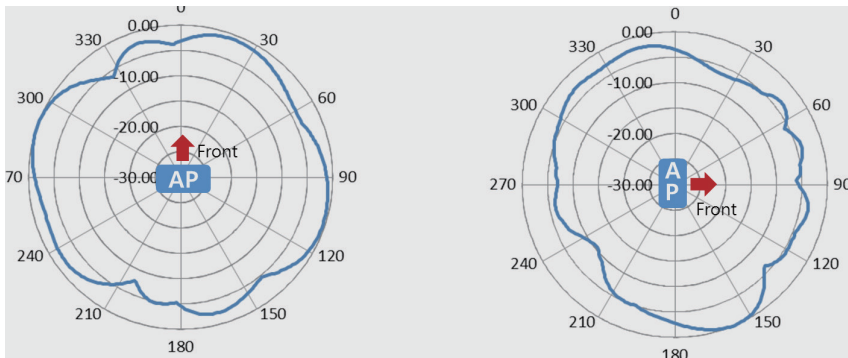## SPECIFICATIONS

WEA412h

Radio Specifications	IEEE802.11a/b/g/n/ac Dual concurrent radio 2 × 2 MIMO, 2 spatial streams PHY data rates up to 867Mbps (5 GHz) 802.11n high throughput (HT20) 802.11ac very high throughput (VHT20/40/80) Dynamic frequency selection (DFS)
Data Rates	802.11b: 1, 2, 5.5 and 11 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: MCS 0 to MCS 15 (6.5 Mbps to 144.4 Mbps) 802.11ac: MCS 0 to MCS 9 (6.5 Mbps to 867 Mbps)
Frequency	802.11b/g/n: 2.400 GHz to 2.483.5 GHz 13 CH 802.11a/n/ac: 5.150 GHz to 5.825 GHz 25 CH * Available Channels are compliant with local regulations
Channel Bandwidth	20MHz, 40MHz, 80MHz
# of BSSID	16 per radio
Maximum RF Power	80mW (19dBm) / path (2.4GHz / 5GHz) 160mW (22dBm) / band (2.4GHz / 5GHz) * The maximum transmit power will vary by channel and according to individual country regulations
Antenna Gain	2.4GHz : 2.5dBi, 5GHz : 3.5dBi
Maximum RX Sensitivity	-93 dBm (MCS0)
Security	iEEE 802.11i, WPA-PSK, WPA-TKIP, WPA2/AES 802.1X/EAP based Controller internal / external Radius, LDAP, Active Directory CAPWAP (DTLS encryption) WIDS (Hybrid mode)
Port	10/100/1000BASE-T PoE Uplink port - PoE-PD (Input) : 802.3af/at PoE 4 x port 10/100/1000BASE-T ports (RJ-45) (LAN) - One port PoE-PSE (output) : 802.3af USB 2.0 A type connector - Beacon(BLE) USB radio dongle - USB-to-Serial Console - SW PKG Upgrade - Easy Installation Console port : Internal 1EA, (RS-232C type, 4pin Connector)
System	256 MB DRAM 128 MB Flash 900MHz System CPU
Capacity	Concurrent Users : Up to 127 Concurrent Voice Calls : Up to 36
Dimension	96mm x 144mm x 36mm (without extention cover)
Weight	330g
Environment	Storage temperature: -25°C to +70°C Operating temperature: 0°C to +45°C Operating humidity: 10 to 90 % (non-condensing)
Power Requirement	Adaptor : 48V, 750mA, 36W PoE : 802.3af (12.95W) / 802.3at (25.4W) One port PoE-PSE - 48 V AC/DC adaptor : 802.3af (15.4W) - 802.3at Input : 802.3af (10W) - 802.3af Input : Disable, USB : Disable

SPECIFICATIONS

WEA412h

Power Draw	12.8W (without PSE & USB activation)
LED	System start status, Provisioning status, Normal operation status, Fault status LED On/Off
Reset Button	Factory Reset
Pass-through Line	Cable hole/Guide for preserving legacy phone (e.g. PBX phones)
Lock Option	Kensington Lock Slot
Operating Mode	Controller based Mode (WEC-8500, WEC8050) - Central Switching / Local Switching Mode Hybrid Sniffer Mode Hybrid WIDS Mode : Monitor, Detection, Alert/Save, GUI Presentation Mesh Mode
QoS	802.11e, WMM - 802.1p, DSCP QoS mapping
Ethernet Port	Port based 802.1X : Authenticator, Supplicant Port based VLAN : Trunk, Access, General Port
DHCP	Server / Client option
Mounting	Included Mounting bracket compatible to install to Single / Dual Gangbox - North America / EU Standard Single/Dual Gangbox Supporting Wall surface installation (Option : Wall surface bracket)
Part Number	Access Point : WDS-A412H/XAR * When ordering AP, you must specify the destination country by indicating "KOR", "XAR", "EUS", "RUS" instead of XXX Optional "Wall Surface bracket"
Antenna Radiation Pattern	2.4 GHz Internal Antenna Radiation Pattern 5GHz Internal Antenna Radiation Pattern

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