

InstaFi™

11ac enabler

Instantly empowers Set Top Boxes (STBs) and consumer electronics (CE) devices with 11ac

Dramatically condenses installation time using industry-standard WPS (Wi-Fi Protected Setup)

Ethernet-based solution streamlines networking setup and performance

Taking innovation to the next level, AirSonics' InstaFi™ 11ac enabler quickly delivers the most powerful 802.11ac Wi-Fi capabilities to Set Top Boxes and a host of rapidly expanding CE devices. With unwavering focus on improving the IPTV business case, InstaFi dramatically condenses install times and facilitates equipment re-use by giving new life to Ethernet-only Set Top Boxes.

Having invested countless hours accompanying techs on installs, we understand the numerous challenges installers face daily. AirSonics delivers by implementing industry-standard and incredibly simple WPS (Wi-Fi Protected Setup) to reduce the pairing process time by over 83%! Utilizing the Ethernet standard and a plug-in approach, InstaFi empowers installers to utilize wireless on site as needed.

In addition to IPTV applications, InstaFi facilitates CE device networking as well. With 8 connected CE devices per average North American home and growing, legacy 2.4 GHz Wi-Fi is simply choking on the demands of these video-centric streaming devices. Employing the latest Wi-Fi standard in the uncrowded 5 GHz spectrum, InstaFi instantly delivers state-of-the-art 11ac capabilities to network CE devices and as well as DFS (Dynamic Frequency Selection) channel support to the numerous CE devices which aren't DFS enabled. InstaFi's bandwidth and installation ease makes it an ideal alternative to in-home Ethernet cabling as well.

With InstaFi, service providers and consumers alike can easily, quickly, and cost-effectively harness the robust powers of 11ac.



PRACTICAL, EFFECTIVE FEATURES

- Installer-friendly WPS for simple, non-intrusive pairing and security set up
- Ethernet-based solution simplifies Wi-Fi networking
- Implements Dynamic Frequency Selection (DFS) for a total of 6.80 MHz channels
- Utilizes readily-available USB powering
- Patented RJ-45 swivel facilitates easy and secure connection
- Small form factor
- High-gain antenna for maximum coverage

BENEFITS

- Gives new life to Ethernet-only Set Top Boxes
- Re-deployability radically lowers expenses related to subscriber churn
- Instantly enables Ethernet CE devices with the latest Wi-Fi benefits
- Bypasses USB-based design shortcomings
- DFS channel support enhances spectral robustness while mitigating interference
- Disruptive price point improves the IPTV payback period by over a year
- Dramatically accelerates IPTV deployments
- Reduces truck rolls resulting from poor Wi-Fi coverage
- Empowers subscribers to place their TVs and viewing devices anywhere in the home
- Empowers installer to use as-needed on-site
- No AC power outlet required – utilizes USB port powering

SPECIFICATIONS

- IEEE802.11ac & IEEE 802.11a/n standards compliant
- Up to 450 Mbps physical rate in the 5 GHz frequency
- Employs 64/128-bit WEP, WPA, WPA2 with IEEE 802.1x functions for enhanced security
- Utilizes WPS (Wi-Fi Protected Setup) button for easy connection
- Portable external dipole antenna design
- Low power consumption using USB 2.0 line power
- Multi-color LED for visually establishing status



FREQUENCY BAND

5.150 ~ 5.825GHz (subject to local regulations)

DATA RATE

11ac (80MHz): VHTMCS0-9, up to 433Mbps
11a: 6/9/12/24/36/48/54Mbps;
11n (40MHz): MCS0-7, up to 144Mbps

OUTPUT POWER

5GHz: 11a(54M): 13±1.5dBm,
11n(20MHz, MCS7): 13±1.5dBm
11n(40MHz, MCS7): 13±1.5dBm,
11ac(80MHz, VHTMCS9): 12±1.5dBm

RECEIVE SENSITIVITY

5GHz: 11a(54M): -71±2dBm,
11n(20MHz, MCS7): -69±2dBm
11n(40MHz, MCS7): -65±2dBm,
11ac(80MHz, VHTMCS9): -52±2dBm

ANTENNA

1 x External dipole antenna

LED

System LED x 1

DIMENSIONS

60 (L) x 50 (W) x 23 (D) mm (without ANT) (ANT 83mm (L))

TEMPERATURE

Operating: 32 ~ 104°F (0 ~ 40°C), Storage: -4 ~ 140°F (-20 ~ 60°C)

HUMIDITY

Operating: 0 ~ 90% (non-condensing)
Storage: Max. 95% (non-condensing)

CERTIFICATION

FCC Parts B and E, FCC DFS



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