Innovative Systems entry into the STB marketplace is generated by customer demand for additional options and increased reliability in Wi-Fi deployments, and it is based upon the Reference Design Kit (RDK) model made popular by vendors and service providers globally.

RDK was created to accelerate the deployment of next-generation video and broadband services. It is a pre-integrated, open-source software distribution that provides a common framework for powering customer-premises equipment such as set-top boxes, modem / routers and other devices from communications service providers. It enables service providers to standardize certain elements of these devices, enabling them to quickly launch their own new services or customize applications and user experiences. The RDK speeds time to market while enabling flexibility and competitive differentiation.

Why the IS-5112W?

**Access Point Mode (Wi-Fi):** Allows customers to separate their video Wi-Fi network from their gateways and routers by acting as an access point from the main STB for up to four additional STBs with 802.11ac (5GHz), allowing a more reliable Wi-Fi network.

**Better Wi-Fi Diagnostics and Metrics:** Internal diagnostics provide staff and customers with the ability to easily install and monitor as well as troubleshoot the system remotely. Use the IS STB Stats App for one-touch setup, configuration, and Wi-Fi diagnostics allowing for quick and easy installs or troubleshooting.

**4K:** This feature rich STB supports 4K video.

**IR Extender:** Ability to use an IR extender to place the STB behind a TV or in drawers hiding the STB from view.

**IS Middleware Features:** Supports existing middleware features, Restart TV, cDVR and VOD for time-shifted video, and many advanced features like Forward Error Correction and InnoCryption.

*NOTE: The IS-5112W STB will easily support advanced features planned for future development.*
Product Specifications for IS-5112W

Processor
- Broadcom BCM7251SUP
- ARM dual-core CPU up to 12,000 DMIPS
- OpenGL ES 3.0, 2.0

Network
- Ethernet 1 Gbps (GE)

Memory
- RAM 1024MB
- NAND Flash 512MB
- SPI NOR Flash 8MB

Video
- H.265/HEVC Main Profile and Main10 Profile up to 4K2Kp60
- VP9 up to 4K2Kp60
- H.264/AVCHP @ L4.2
- MPEG2

Audio
- Dolby Digital
- Dolby Digital Plus
- AAC
- MPEG1 Layer II (mp2)

Containers
- MPEG2-TS
- MP4
- HLS (future)

Rear Panel
- 1 x USB 3.0
- 1 x HDMI 2.0 with HDCP 2.2
- 1 x AV mini-jack port
- 1 x RJ45 Ethernet port
- 1 x 12V DC power input

Front Panel
- LED - dual color: red and green
- IR receiver

Accessories
- US PSU

Optional Accessories (not included)
- HDMI cable
- A/V to Component cable with adapter
- Remote Control
- IR Extender

Dimensions
- 6 x 6 x 2 inches

Audio Royalties
- DD, DD+ - Dolby
- AAC - via licensing
- MPEG1 Layer II

Video Royalties
- MPEG2 Visual - MPEG LA
- AVC/H.264 - MPEG LA
- HEVC - MPEG LA
- HEVC - HEVC Advance

Other Royalties
- HDMI 2.0
- HDCP 2.2

Network
- Wi-Fi 5 Ghz 802.11ac 4x4 from Quantenna
- MU - MIMO

Audio Royalties
- DD, DD+ - Dolby
- AAC - via licensing
- MPEG1 Layer II

Video Royalties
- MPEG2 Visual - MPEG LA
- AVC/H.264 - MPEG LA
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