RDK Video

RDK is a fully modular, portable, and customizable software solution for video devices and other profiles. With features designed to manage complex video functions, operators can efficiently deploy services to a large subscriber base. As an open source platform, we welcome and encourage RDK community members to contribute software changes and enhancements to the RDK stack.

RDK accelerates the deployment of next-gen video products and services, simplifying customization and user experience.

RDK Video (RDK-V) IP provides a common method to manage video playback functions. The IP client device serves as an interface and receives video content from an in-home media gateway device or from an external media server.

RDK-V IP Features

- Content delivery — VOD, SDV, iPPV, Video over Wi-Fi
- Digital Rights Management (DRM) — Adobe® Access integration, PlayReady® & Widevine
- Emergency alert system
- Cast screening
- Adaptive bit rate with MPEG-DASH
- Codecs support for HDR 10 bit (HEVC HLS) for gateway set-top
- Video output resolutions up to Ultra HD/4K & HDR
- Audio output formats, including Dolby® MS12
- Customizable video telemetry
- Closed captioning
- Copy protection
- Song track identification

RDK-V Hybrid provides a common method to manage complex video functions such as tuning, conditional access, DRM, and stream management.
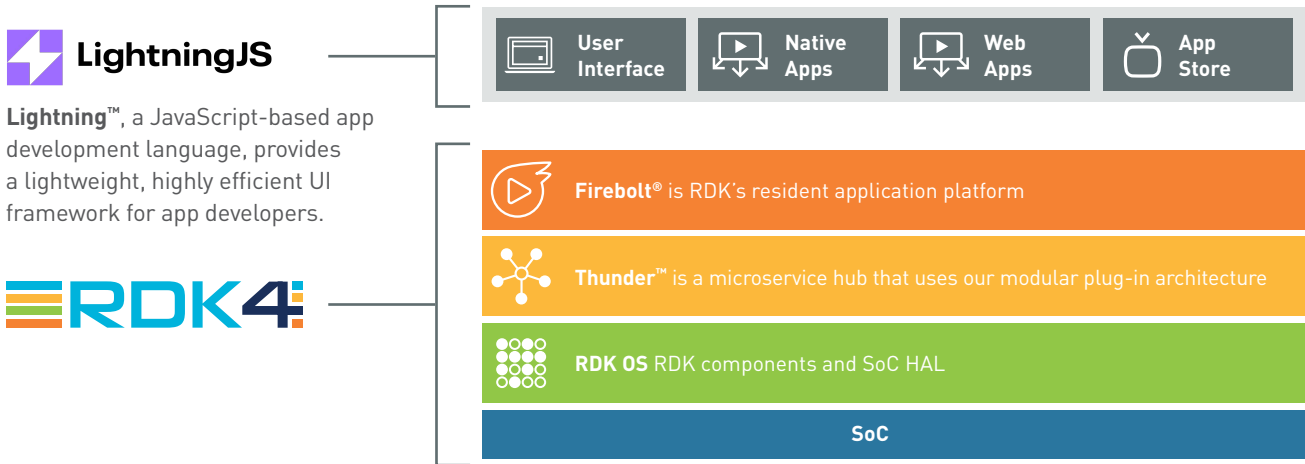
RDK-V Hybrid Features

- QAM & DVB tune
- IPTV & VOD
- Media streaming to in-home devices
- Home networking
- Recording
- Customizable telemetry & feature control
- Progressive download
- Conditional access & DRM
- Premium apps
- Diagnostics support
- Closed captioning
- Support for all popular streaming protocols

RDK4 is the latest version of the RDK-V software stack, designed to simplify app development and integration on any set-top device while allowing companies to maintain complete control of their apps, device data, and customer experience.

RDK4 is designed for use with Lightning™, a JavaScript-based app development language, but also supports HTML5 web apps and native streaming video apps integrated through Firebolt®.

LightningJS

Lightning™, a JavaScript-based app development language, provides a lightweight, highly efficient UI framework for app developers.

RDK4

User Interface	Native Apps	Web Apps	App Store

Firebolt® is RDK's resident application platform

Thunder™ is a microservice hub that uses our modular plug-in architecture

RDK OS RDK components and SoC HAL

SoC

RDK4 includes:

Global streaming apps: RDK features pre-integrated top global streaming apps, providing operators with an easy path to offer today's most popular content to subscribers.

Firebolt®: The RDK4 application platform accelerates the rigorous certification process required by today's leading global streaming app providers and ensures compatibility with their latest releases, eliminating the need for future updates.

Pre-integrated app store: Today's entertainment and information environment is driven by access to a wide range of apps. RDK is pre-integrated with the Metrological® App Store, with access to 300+ apps, providing robust options at launch yet retaining control of your devices, UI, or customer data.

To learn more about RDK, visit **www.RDKCentral.com**.

RDK