– Realtek RTD1295 4xCortex-A53 chipset
– ARM V8 architecture
– 2D/3D accelerators, OpenGL 3.1 support
– OS Android 7.1
– Application store
– Support of widely used Middleware
– Android API, SDK
– Java Script API, SDK
– 4Kp60 decoding
– Wi-Fi 802.11b/g/n/ac
– Access point mode

NV-510-WB IPTV set-top box on Android provides services on a new level. It is a perfect tool for promotion of IPTV services and acquisition of new customers.

Android Platform
Android serves as a single universal platform to provide access to services and functions with a familiar interface such as AndroidTV.

Creation of a Customized Application Store
The open platform and development tools (SDK, API) provide quick creation of new operator services and manage the access to services.

Hardware platform
A quad-core Realtek media processor supports a wide range of audio and video formats.

Up-to-date Wi-Fi technologies
NV-510-WB supports up-to-date Wi-Fi standards: 802.11a/b/g/n/ac and implements stable real-time traffic transmission.
Support of Wi-Fi Client provides ability to connect NV-510-WB to the external network using wireless communication channels.

Peer-to-Peer TV
An additional option of content delivery is available: multimedia files realtime playback on STB via DC++ and Torrent protocols without PC usage and files download to a local disk. It is possible to download files in the background, to create a download queue with the further playback as well as to add an illustrated page (catalogue) for media content

Basic Services
– ULTRA HD IPTV
– OTT
– VoD
– Media Player (files playback from external device and local network)
– Electronic Program Guide (EPG)
– Cloud services support
– Online resources: Youtube, Internet radio, etc.
– Store for provider's applications
– HLS
– Peer-to-Peer TV (video streaming via DC++, Torrent)

ELTEX
Complete solutions for networking

Features and capabilities

Hardware advantages
– Realtek RTD1295 chipset
– ARMv8 architecture
– More than 12 000 DMIPS
– 2 GB RAM
– 8 GB Flash
– 2D/3D accelerators, OpenGL
– OS Android 7.1
– 4Kp60 decoding

General
– HLS
– CAS, DRM: A.R.E.S. DRM
– Full HD 1080p, UltraHD 4Kp60
– Multilinguality
– Ability to connect computer mouse or keyboard
– Management and voice search:
    – IR remote controller
    – Bluetooth remote controller (optional)
    – Programmable remote controller – Android application

Interfaces
– 1 x LAN 10/100/1000
– 2 x USB 2.0
– HDMI 2.0
– microSD Card Reader
– Port for external IR receiver

Video
– Screen resolution: Ultra HD 2160p, Full HD 1080p, HD 720p
– Video formats MPEG1, MPEG(+HD), MPEG4(+HD), XvID, DivX, H.264, AVCHD, Vc1

Audio
– 44.1, 48, 96 kHz

Network
– Protocols: IP, HTTP, DHCP, NTP, IGMP (multicast), ICMP, UDP, RTP, RTSP, PPPoE, DLNA, SAMBA, Bit-torrent

Service
– Provider-oriented application store, Android applications, Google Play
– Software update via provider-oriented application store

Wireless network
– Dual band Wi-Fi IEEE 802.11b/g/n/ac, 2,4/5 ГГц
– Integrated antenna

Physical parameters
– Dimensions (LxWxH): 110x110x21 mm
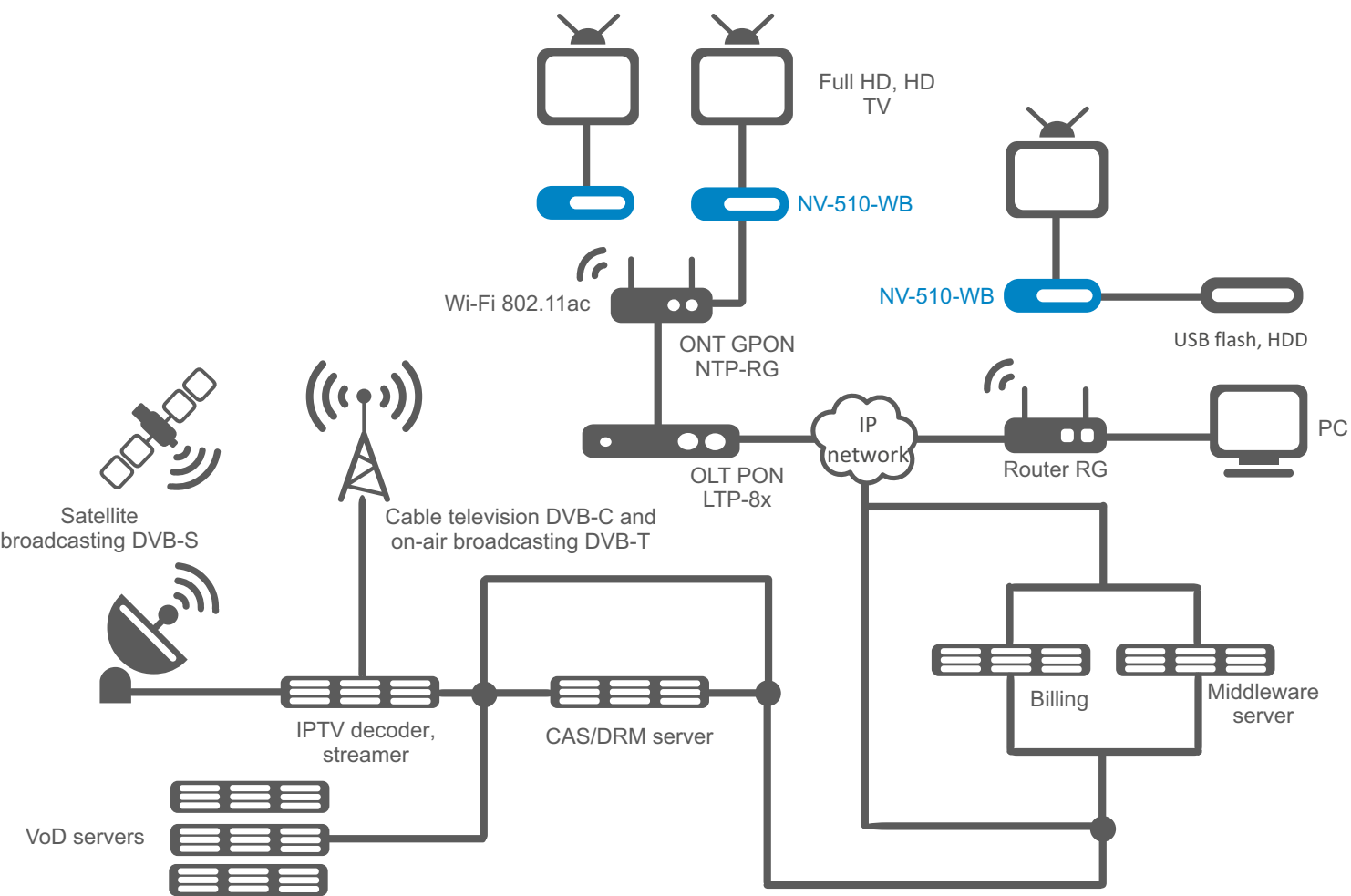– Horizontal placement, wall mounting
– Material: plastic

Power supply
– Adapter: 5V/2A

Supply package
– IPTV set-top box
– Power supply
– IR remote controller
– 2 AAA batteries
– HDMI cable
– Quick user manual

Use Case

Full HD, HD TV

NV-510-WB

Wi-Fi 802.11ac

ONT GPON NTP-RG

NV-510-WB

USB flash, HDD

IP network

Satellite broadcasting DVB-S

Cable television DVB-C and on-air broadcasting DVB-T

OLT PON LTP-8x

Router RG

PC

IPTV decoder, streamer

CAS/DRM server

Billing

Middleware server

VoD servers

Ordering Information

Name	Description	Image
NV-510-WB	Full HD Set-Top box and media player, Realtek RTD1295, 2 GB RAM, Android 7.1, 1xLAN 10/100/1000, 2xUSB 2.0, HDMI 2.0, Wi-Fi 802.11a/b/g/n/ac, Bluetooth	
Additional options		
Universal remote controller	Programmable remote controller provides TV and STB management	