Zx4515 UHD Set-Tops

DVB, HEVC, Ultra-HD, Quad-Core Set-Tops with 802.11ac Wi-Fi

FEATURES

- Android TV™ compliant platform
- Netflix Compliant (subject to Netflix/operator certification)
- RDK 2.x ready and supports traditional Pay-TV middleware
- 2x2 dual-band selectable IEEE 802.11ac Wi-Fi
- Industry-standard DRM support including pre-integration with
  Microsoft® PlayReady®, Widevine®, and ARRIS SECUREMEDIA® DRM
- Support for a range of Conditional Access System options available, including ARRIS TITANIUM
- The range includes models for OTT, DVB-C, DVB-S2, DVB-T2 or hybrid service providers
- Ultra-HD with support for a wide range of HDR formats including HDR10, HLG and Dolby Vision (optional dependant on royalty)
- HDMI™ 2.1
- Secure Bootloader

PRODUCT OVERVIEW

ARRIS presents a range of stylish, high-quality UHD (4K) set-tops in a small form factor, with models for cable, satellite, terrestrial and OTT operators. The Zx4515 is an Android TV compliant DVB platform which uses the latest technologies to reduce power consumption and increase processing capabilities.

High Quality Video Experience - Ultra-HD, 10-bit colour and High Dynamic Range deliver four times the resolution of full HD, improved colour reproduction and a wider luminance range for an image that's even closer to reality, all at frame rates that allow fast-moving action with reduced blurring. The Zx4515 includes HDR<>SDR conversion for video and graphics, allowing the seamless use of legacy UIs on HDR displays, and the viewing of HDR content on conventional displays without the need for simulcasting.

Enables a wide choice of User Experience – a high-performance processor, 3D OpenGL and fast LPDDR4 memory give the platform the power to support a wide range of middlewares including Android TV to deliver a modern user experience.

Connectivity - the Zx4515 is a highly-connected unit with integrated IEEE 802.11ac dual band wireless and Fast Ethernet. USB 2.0 allows the connection of additional storage devices for functions such as time-shift TV. The Bluetooth Low Energy remote control option supports voice search and allows for hidden installation.

Ultra High Definition	HEVC H.265	HDMI™ 2.1	USB 2.0	802.11ac Wi-Fi

PRODUCT VARIANTS

ZC4515	DVB-C, HEVC, Ultra-HD, Quad-Core Set-Top with 802.11ac 2x2 Wi-Fi
ZS4515	DVB-S2, HEVC, Ultra-HD, Quad-Core Set-Top with 802.11ac 2x2 Wi-Fi
ZT4515	DVB-T2, HEVC, Ultra-HD, Quad-Core Set-Top with 802.11ac 2x2 Wi-Fi
ZH4515	DVB multi-standard (on request), HEVC, Ultra-HD, Quad-Core Set-Top with 802.11ac 2x2 Wi-Fi

GENERAL SPECIFICATIONS

Core Processor

Processing	Quad-core, 15000 DMIPS

Graphics

Technology	3D OpenGL ES3.1

Memory

RAM	2 GB LPDDR4
Application Flash	8 GB eMMC
Boot Flash	4 MB SPI NOR (optional)

Video Decode / Encode

Decoders/Resolutions	Single up to 4kp60 10bit
Encoders	1 Video (limited)
HDR formats supported	HDR10, HLG and Dolby Vision
Profiles	HEVC H.265 up to Main10@L5.1; AVC H.264 up to MP@L4.2; MPEG-2 up to MP@HL VP9 Profile 0 and 2
Optional Codecs	VC1, WMV, DivX, VP8

Audio Decode

Sample Rate	32-192 kHz
MPEG Audio	MPEG-1 Layers 1, 2, and 3 (MP3)
MPEG-4 Audio	HE AAC v2 profile
Dolby	Dolby Digital™, Dolby Digital Plus™, and Dolby ATMOS™ (option)
Optional Codecs	WMA

GENERAL SPECIFICATIONS - CONTINUED

DVB-C Cable option (ZC4515)

Input	IEC 61169-24 Female
Tuning Range	112-1002 MHz
Input Signal Level	--15 to +15 dBmV
Tuner/Demodulator	Full Band Capture 2, 4 or 8 x DVB-C/ITU J83-A,B,C
Symbol Rate	4.0-6.952 Msym/s with notional support up to 7 Msym/s
Modulation	16-, 32-, 64-, 128- and 256-QAM

DVB-S2 Satellite Option (ZS4515)

Input	2 x IEC 61169-24 Female
Tuning Range	250-2350 MHz
Input Signal Level	-65 to -25 dBm
Tuner/Demodulator	2x Wideband Full Band Capture Tuners and 2, 4 or 8 x QPSK/8PSK demodulators compliant to EN 300 421 and EN 302 307 DVB-S/S2
Symbol Rate	2-45 Msym/s
LNB Supply	350 mA continuous supply
LNB Control	13/18 V, 22-kHz tone
DiSEqC	2.0 and SatCR

DVB-T2 Terrestrial Option (ZT4515)

Input	IEC 61169-2 Female
Tuning Range	174-216 MHz (VHF) 470-806 MHz (UHF)
Input Signal Level	-94 to -23 dBm
Tuner/Demodulator	1 or 2 x DVB-T/T2 tuner and demodulator
Standards	EN 300 744 and EN302 755 Digital TV Group D-Book Nordig Unified Specification

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GENERAL SPECIFICATIONS - CONTINUED

Wi-Fi

Radio	2x2 802.11ac dual-band selectable
Bandwidth	20,40 and 80Mhz Support
Beamforming	TX and RX
Modulation	BPSK,QPSK,16QAM,64QAM,256QAM
PHY rate	867 Mbps 5Ghz 300 Mbps 2.4GHz

Front Panel

Remote Control	IR, Bluetooth
Indicators	2 LEDs, Blue/ Red standby indicator
Buttons	One power button

Rear Panel

RF Input	As listed on previous page
Digital AV	HDMI™ 2.1
Analogue AV	None
USB	USB 2.0 Type A 500 mA
Ethernet	RJ-45 Fast Ethernet
CAS	SIM-style smartcard (option)
Power	DC input

GENERAL SPECIFICATIONS - CONTINUED

CAS and Security

Secure Processor	Yes
Interface	SIM-style compliant to ISO 7816
HDCP	HDCP 2.2
DRM Support	ARRIS SecureMedia® DRM Microsoft PlayReady® Widevine®
CAS Support	ARRIS TITANIUM CAS ARRIS Secure Bootloader

Physical

Dimensions	120mm (W) x 120mm (D) x 40mm (H)

Power

EU Code-of-Conduct compliant
Compliant to Energy Using Products Legislation EC No 1275/2008 and amendment EU 801/2013
External PSU, localised according to region

CUSTOMER CARE

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

▷◁ DOLBY AUDIO™

Contact Customer Care for product information and sales:

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Zx4515-UHD Set-Tops

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