

Zx4517 UHD Set-Tops

DVB, HEVC, Ultra-HD, Quad-Core Set-Tops
with Wave 2 802.11ac 4x4 Wi-Fi



FEATURES

- Android TV™ compliant platform
- Netflix Compliant (subject to Netflix/operator certification)
- RDK 2.x ready and supports traditional Pay-TV middleware
- 4x4 IEEE 802.11ac Wave 2 dual-band selectable Wi-Fi
- Virtual dual-band simultaneous Wi-Fi option; 5 GHz only single band option
- Powerful Quad-core Processor supports next generation user experiences
- Support for a range of Conditional Access System options available, including ARRIS TITANIUM
- Industry-standard DRM support including pre-integration with Microsoft® PlayReady®, Widevine®, and ARRIS SECUREMEDIA® DRM
- 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)

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 Zx4517 is an Android TV compliant DVB platform which uses the latest technologies to reduce power consumption and increase processing capabilities.

Enhanced Whole Home Connectivity - the Zx4517 is a highly-connected unit with integrated 4x4 IEEE 802.11ac dual band Wi-Fi. This delivers exceptional performance even in challenging environments through next generation technologies such as MU-MIMO and beamforming. 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.

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 Zx4517 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.

PRODUCT VARIANTS

ZC4517	DVB-C, HEVC, Ultra-HD, Quad-Core Set-Top with 802.11ac 4x4 Wi-Fi
ZS4517	DVB-S2, HEVC, Ultra-HD, Quad-Core Set-Top with 802.11ac 4x4 Wi-Fi
ZT4517	DVB-T2, HEVC, Ultra-HD, Quad-Core Set-Top with 802.11ac 4x4 Wi-Fi
ZH4517	DVB multi-standard (on request), HEVC, Ultra-HD, Quad-Core Set-Top with 802.11ac 4x4 Wi-Fi

GENERAL SPECIFICATIONS

Core Processor

Processing	Quad-Core, 15000 DMIPS
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Graphics

Technology	3D OpenGL ES3.1
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Memory

RAM	2 GB LPDDR4
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Application Flash	8 GB eMMC
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Boot Flash	4 MB SPI NOR (option)
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Video Decode / Encode

Decoders/Resolutions	Single up to 4kp60 10bit
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Encoders	1 video (limited)
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HDR formats supported	HDR10, HLG and Dolby Vision
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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
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Optional Codecs	VC1, WMV, DivX, VP8
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Audio Decode

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

DVB-C Cable option (ZC4517)

Input	IEC 61169-24 Female
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Tuning Range	112-1002 MHz
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Input Signal Level	--15 to +15 dBmV
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Tuner/Demodulator	Full Band Capture 2, 4 or 8 x DVB-C/ITU J83-A,B,C
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Symbol Rate	4.0-6.952 Msym/s with notional support up to 7 Msym/s
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Modulation	16-, 32-, 64-, 128- and 256-QAM
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DVB-S2 Satellite option (ZS4517)

Input	2 x IEC 61169-24 Female
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Tuning Range	250-2350 MHz
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Input Signal Level	-65 to -25 dBm
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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
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Symbol Rate	2-45 Msym/s
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LNB Supply	350 mA continuous supply
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LNB Control	13/18 V, 22-kHz tone
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DiSEqC	2.0 and SatCR
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DVB-T2 Terrestrial option (ZT4517)

Input	IEC 61169-2 Female
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Tuning Range	174-216 MHz (VHF) 470-806 MHz (UHF)
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Input Signal Level	-94 to -23 dBm
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Tuner/Demodulator	1 or 2 x DVB-T/T2 tuner and demodulator
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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	4x4 802.11ac dual-band selectable (option: 5 GHz only single band)
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Bandwidth	20, 40 and 80Mhz Support
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Beamforming	TX and RX
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Modulation	BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM support with compatible AP
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MU-MIMO	RX
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PHY rate	2.2 Gbps 5Ghz 1 Gbps 2.4GHz
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Front Panel

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

RF Input	As listed on previous page
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Digital AV	HDMI™ 2.1
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Analogue AV	None
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USB	USB 2.0 Type A 500 mA (option: USB 3.0 Type A 900 mA)
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Ethernet	RJ-45 Fast Ethernet
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CAS	SIM-style smartcard (option)
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Power	DC input
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GENERAL SPECIFICATIONS - CONTINUED

CAS and Security

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

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

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656



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