



Dual-Core Mobile Application Processor

Multi-core performance is now a critical requirement of new consumer, home, and auto infotainment devices. As computing resource requirements increase, computing power must

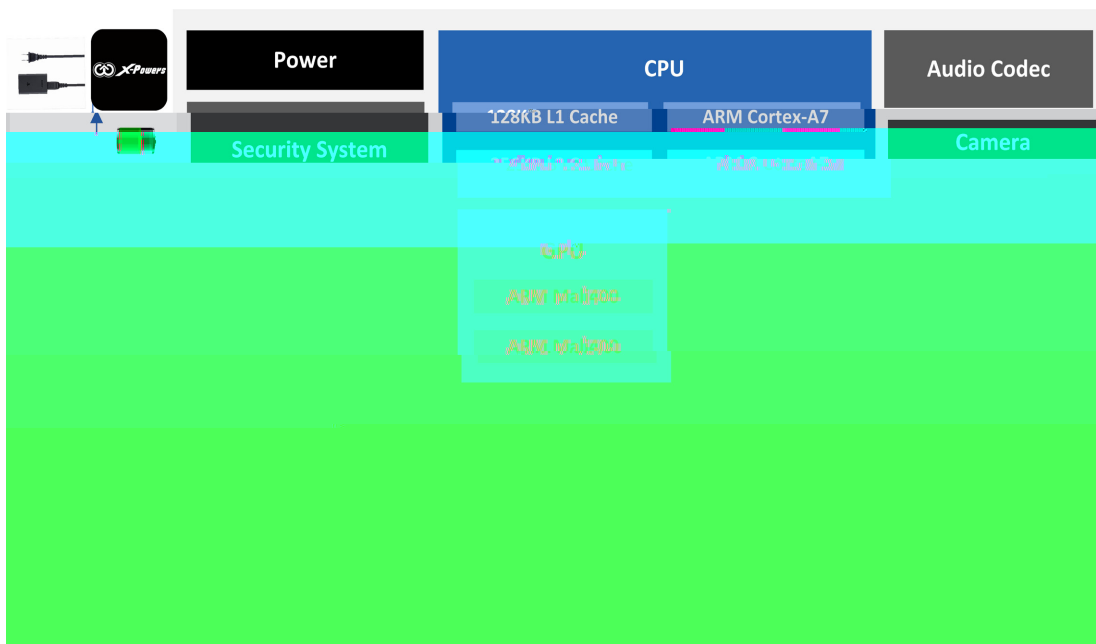
are growing in complexity as users require faster and more enjoyable content. Allwinner's A20 processor, a dual-core Cortex™-A7 system, delivers a multi-core solution for tablets, smart TV, IPTV, and portable devices that effectively balances system cost, performance, and power consumption.

The A20 processor is based on a dual-core ARM® Cortex™-A7 CPU architecture, the most

Applications



cycle and enables customers to directly upgrade already-mature single-core platforms directly to dual-core.



Features

CPU	ARM® Cortex™-A7
GPU	ARM® Mali400MP2
Video	Complies with RTSP, HTTP,HLS,RTMP,MMS streaming media protocols
	Integrated TV decoder
Camera	Supports 5M CMOS sensor Supports dual sensors
Memory	
Audio	Integrated Hi-Fi 100dB audio codec
OS	Android 4.2 and above

Selection Guide

Allwinner Cortex-A Family

	A31	A31s	A20	A10s	A13
CPU	Quad-Core Cortex™-A7	Quad-Core Cortex™-A7	Cortex™-A7	Single-Core Cortex™	Single-Core Cortex™
GPU	SGX544MP2	SGX544MP2	Mali400MP2	Mali400	Mali400
Video Playback	4Kx2K				
Video Capture					
Package			BGA441	14mmx14mm	20mmx20mm
Applications	Tablet Smart TV	Phablet	Tablet Smart TV		Tablet E-reader

About Allwinner

Allwinner Technology is a leading fabless design company dedicated to smart application processor SoCs and smart analog ICs. Its product line includes multi-core application processors for smart devices and smart power management ICs used by brands worldwide.

power consumption, Allwinner Technology is a mainstream solution provider for the global tablet, internet TV, smart home device, automotive in-dash device, smart power management, and mobile connected device markets. Allwinner Technology is headquartered in Zhuhai, China.