

ALLNET DS5-Pro Digital Signage RK3588 4GB/32GB Android 12/Linux Media Player

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The most powerful digital signage multimedia player

Rockchip RK3588, HDMI 2.1, WLAN AX 2.4/5GHz, 4K, USB 3.1

Our new multimedia player is a small, very powerful player with **Android 12 or Linux**. The player can be used as a TV box as well as a digital signage media player and MiniPC. The RK3588 is currently the most powerful ARM processor and is on a par with an Intel Core i5 and is up to 10x faster than an RK3399.

The connection to the Google Appstore gives you access to millions of apps

The player can display up to **4K/8K resolution** with suitable displays. With its **4/8/16GB DDR4 memory** the player has a **very high performance** in video playback and the memory runs less full than with the 2GB variants. The **32/64/128/256 GB fixed memory** offers enough space to store digital signage content offline

A digital SPDIF audio output provides the optimum cinema experience via a cinema sound system. It can be operated via an optional keyboard and mouse or via the remote control included in the scope of delivery. The DS5 can also accommodate a 2.5" HDD or SSD with SATA on the underside. This additional option makes it interesting for recorders or other functions.

Models:

DS5Pro-4GB/32GB currently available, other models on request

DS5Pro-4GB/64GB

DS5Pro-8GB/32GB

DS5Pro-8GB/64GB



Part No.: 212203
Vendor Part No.: ALL-DS5Pro-432

DS5Pro-8GB/128GB
DS5Pro-16GB/128GB
DS5Pro-16GB/256GB

Package contents:

1 x 12V power supply
1 x HDMI® Cable
1 x User Manual + Colour Box
1 x RK3588 Player
1 x Remote Control

Dimensions: 116x116x45mm

Download firmware Linux Debian Ubuntu and Android 12 (not TV version): <https://fileshare.allnet.de/s/S15zewSlff2IAzC>

Comparison with RK3399 CPU:

Processor	Rockchip RK3588	Rockchip RK3399
Market (main)	Single-board computer	Single-board computer
ISA	ARMv8-A (64-bit)	ARMv8-A (64-bit)
Microarchitecture	Cortex-A76, Cortex-A55	Cortex-A72, Cortex-A53
Family	RK3500	RK3300
Part number(s), S-Spec	RK3588	RK3399(K), RK3399 K
Release date	Q4 2021	Q1 2016
Lithography	8 nm LP	28 nm HKMG
Cores	8	6
Threads	8	6
Base frequency	1.8 GHz	1.5 GHz
Turbo frequency	2.4 GHz	2.0 GHz
Energy cores	4x ARM Cortex-A55 @ 1.8 GHz	4x ARM Cortex-A53 @ 1.5 GHz
High performance cores	4x ARM Cortex-A76 @ 2.4 GHz	2x ARM Cortex-A72 @ 2.0 GHz
Cache memory	3 MB	1,512 MB
Max memory capacity	32 GB	4 GB
Memory types	LPDDR4, LPDDR4X, LPDDR5	LPDDR3-1866, LPDDR4 SDRAM
Max PCIe lanes	4	4
TDP	12 W	7 W
GPU integrated graphics	ARM Mali-G610 MP4	ARM Mali-T860 MP4
GPU execution units	4	4



GPU shading units	64	64
GPU clock	600 MHz	600 MHz
GPU FP32 floating point	610.6 GFLOPS	81.6 GFLOPS
Socket	SoC	SoC
Drystone MIPS	131.342 DMIPS	32,600 DMIPS
AI accelerator	AI Accelerator, NPU 3.0	-
AI computing operations per seconds	6 TOPS	-
Crypto engine	-	AES 128/192/256, DES/3DES, SHA1/SHA256/MD5, PRNG, TRNG
Security	-	Trustzone
Max display resolution	8K@60fps	4K@60fps
Video decoding	H.265/H.264 8K@60fps, 4K@120fps	H.265/H.264 4K@60fps
Video encoding	H.265/H.264 8K@30fps	H.264 1080p@30fps
Max camera ISP	24 MP + 24 MP	-
Max video capture	Dual MIPI-CSI	-
Modem	1000Mbps RJ45 Ethernet	10/100/1000M Ethernet
Connectivity	USB 2.0, USB 3.1 Type-C, HDMI 2.1, PCIe 3.0	HDMI 2.0, USB 2.0, USB 3.0
Wi-Fi	Wi-Fi 2.4GHz/5GHz	-
Bluetooth	Bluetooth 4.2	-
Audio	PDM	I2S, PCM, SPDIF
PassMark CPU Mark	6,124	1,378
(Android 64-bit) Geekbench 4 single core	2,423	1,144
(Android 64-bit) Geekbench 4 multi-core	8,162	2,776
(Android) Geekbench 5 single core	508	269
(Android) Geekbench 5 multi-core	2,235	615
(SGEMM) GFLOPS performance	72.1 GFLOPS	23.9 GFLOPS
(Multi-core / watt performance) Performance / watt ratio	680 pts / W	397 pts / W



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Attributes

Attribute	Value
Alternative Betriebssysteme:	Linux;
Arbeitsspeicher (RAM):	4
Betriebssystem:	Android 12
Bluetooth:	ja
Chipset:	RK3588
Einsatzbereiche:	indoor
Farbe Gehäuse:	schwarz
Hauptspeicher:	32
Kamera:	nein
Mobilfunk:	nein
Stromversorgung:	Netzteil
Weight:	0.37 Kg
Warranty:	12.00 Months

Accessories

Part No.	Name
210354	ALLNET PoE Splitter-Mini/Extractor / Gigabit / 24W / 5V/12V Switchable / ALL-PS102G-AF-AT
214123	ALLNET Air Mouse G10 Pro Remote Control 2.4GHz USB Dongle with Infrared