ENGICAM
EMBEDDED SOLUTIONS

V5/24

V. Box RK3568

alcom electronics

High Performance Single Board Computer based on RockChip® RK3568 series.

HIGHLIGHTS

- CPU RK3568/RK3568J
- CONNECTIVITY 2x GbE (one PoE)
- Fully IEEE 802.3bt (POE+)

APPLICATIONS

Automotive | Biomedical/Medical devices | Transportation | Digital Signage Infotainment | Robotics

FEATURES

CPU	RockChip RK3568/RK3568J CPU, Quad Core ARM Cortex-A55 @ 1.8GHz	
CORES	4	
MEMORY	Up to 8GB LPDDR4 / 3200 MTs	
GRAPHICS	2D graphics, 3D graphics and General Purpose computing on GPU. The GPU supports these compute API standards: • OpenCL 2.0 Full Profile • OpenGL ES 1.1, 2.0, and 3.2 • Vulkan 1.0 and 1.1.	
Video INTERFACES	• HDMI up to 4K @ 60Hz • Optional eDP up to 4K @ 60Hz • LVDS Dual Channel up to Full HD @ 60Hz via eDP bridge	
Video PROCESSING	• HEVC/H.265, VP9, AV1 HW decoding, up to 8k @60. • AVC/H.264, HEVC/H.265	
AUDIO	Build in I2S (on PMIC RK-809)	
NETWORKING	• 2 x Gb Ethernet interfaces	

POWER SUPPLY	• +17 to +26 VDC (on Jack connector) • +36V to +57V input Voltage (on POE)	
USB	• 2 x USB HOST 3.0	
MASS STORAGE	• eMMC soldered on board170408	
PERIPHERAL INTERFACES	• 1x uSD card on SDIO Bus • 2x RS232 (1 x Linux Console) • 1x Digital GP INPUT (up to 32V) • 1x Driver Relay 12V	
OPERATING SYSTEM	• Linux Yocto • Android	
DIMENSIONS	113 x 100 mm	
OPERATING TEMPERATURE*	Consumer Industrial (up to 125°C Tj*)	

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.

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DESCRIPTION

LAN Port

HP

LAN / POE — LAN — HDMI — USB

LAN+PoE Port

HDMI port

USB 3.0

LED Power supply unit

Input

Driver Relay

VDC — SER — PSU — RST INPUT RELAY — RUN

Power jack

Serials

uSD Card

LED Run

Reset Button

CABLE MAP

Power jack

Serials

uSD

GPIO Driver Input Relay

ENGICAM
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USB 3.0

HDMI OUT

Audio

LAN/ PoE

Ethernet