

## V. Box RK3568

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



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### **HIGHLIGHTS**

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

#### **APPLICATIONS**





**OPERATING** 

**TEMPERATURE\*** 







## **FEATURES**

Video

**AUDIO** 

**PROCESSING** 

**NETWORKING** 







T 300	CPU	Deal/Ohip DV2ECO/DV2ECO LODIL Outed Care ADM Cortey, AEE @ 100 Lt
CPU		RockChip RK3568/RK3568J CPU, Quad Core ARM Cortex-A55 @ 1.8GHz
	CORES	4
	MEMORY	Up to 8GB LPDDR4 / 3200 MTs
<u></u>	GRAPHICS	<ul> <li>2D graphics, 3D graphics and General Purpose computing on GPU The GPU supports these compute API standards:</li> <li>OpenCL 2.0 Full Profile</li> <li>OpenGL ES 1.1, 2.0, and 3.2</li> <li>Vulkan 1.0 and 1.1.</li> </ul>
<u>k</u>	Video INTERFACES	<ul> <li>HDMI up to 4K @ 60Hz</li> <li>Optional eDP up to 4K @ 60Hz</li> <li>LVDS Dual Channel up to Full HD @ 60Hz via eDP bridge</li> </ul>

Build in I2S (on PMIC RK-809)

• 2 x Gb Ethernet interfaces

HEVC/H.265, VP9, AVI HW decoding, up to 8k @60.
AVC/H.264, HEVC/H.265

	POWER SUPPLY	<ul><li>+17 to +26 VDC (on Jack connector)</li><li>+36V to +57V input Voltage (on POE)</li></ul>
<b>●</b> ✓ <u>*</u>	USB	• 2 x USB HOST 3.0
<b>Q</b> _	MASS STORAGE	eMMC soldered on board170408
	PERIPHERAL INTERFACES	<ul> <li>1x uSD card on SDIO Bus</li> <li>2x RS232 (1 x Linux Console)</li> <li>1x Digital GP INPUT (up to 32V)</li> <li>1x Driver Relay 12V</li> </ul>
<b>\$</b>	OPERATING SYSTEM	<ul><li>Linux Yocto</li><li>Android</li></ul>
Δ	DIMENSIONS	113 x 100 mm

Industrial (up to 125°C Tj\*)

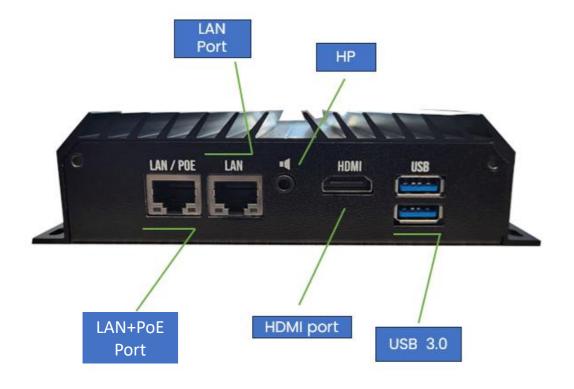
Consumer

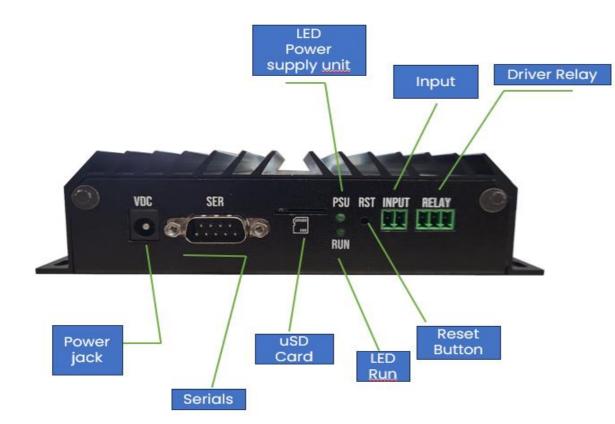
<sup>\*</sup> Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.



# V. Box RK3568

## **DESCRIPTION**





### **CABLE MAP**

