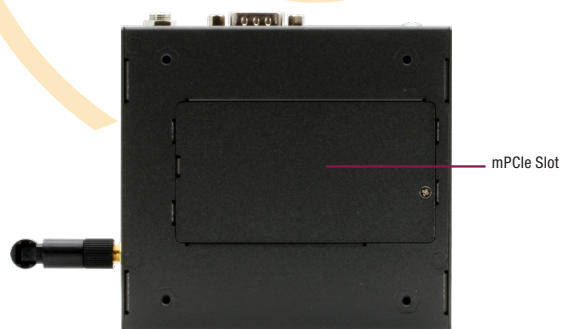
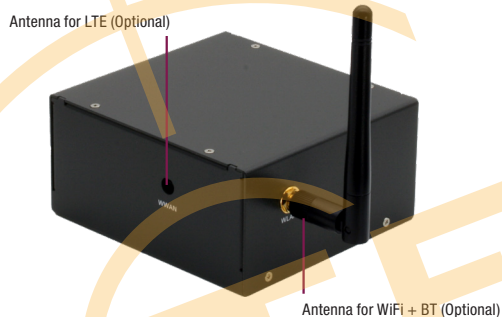
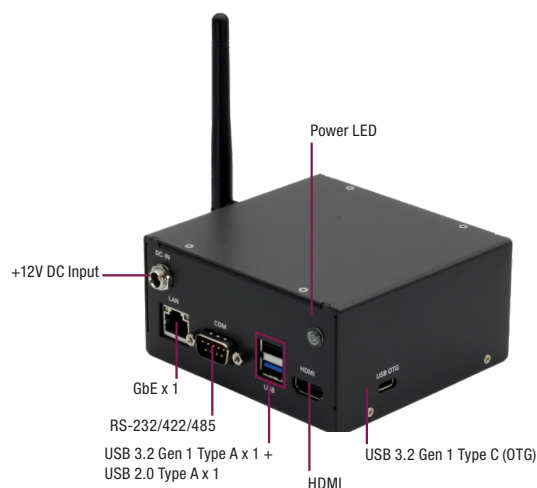


# BOXER-RK99

Fanless Embedded Box PC with Rockchip RK3399



## Features

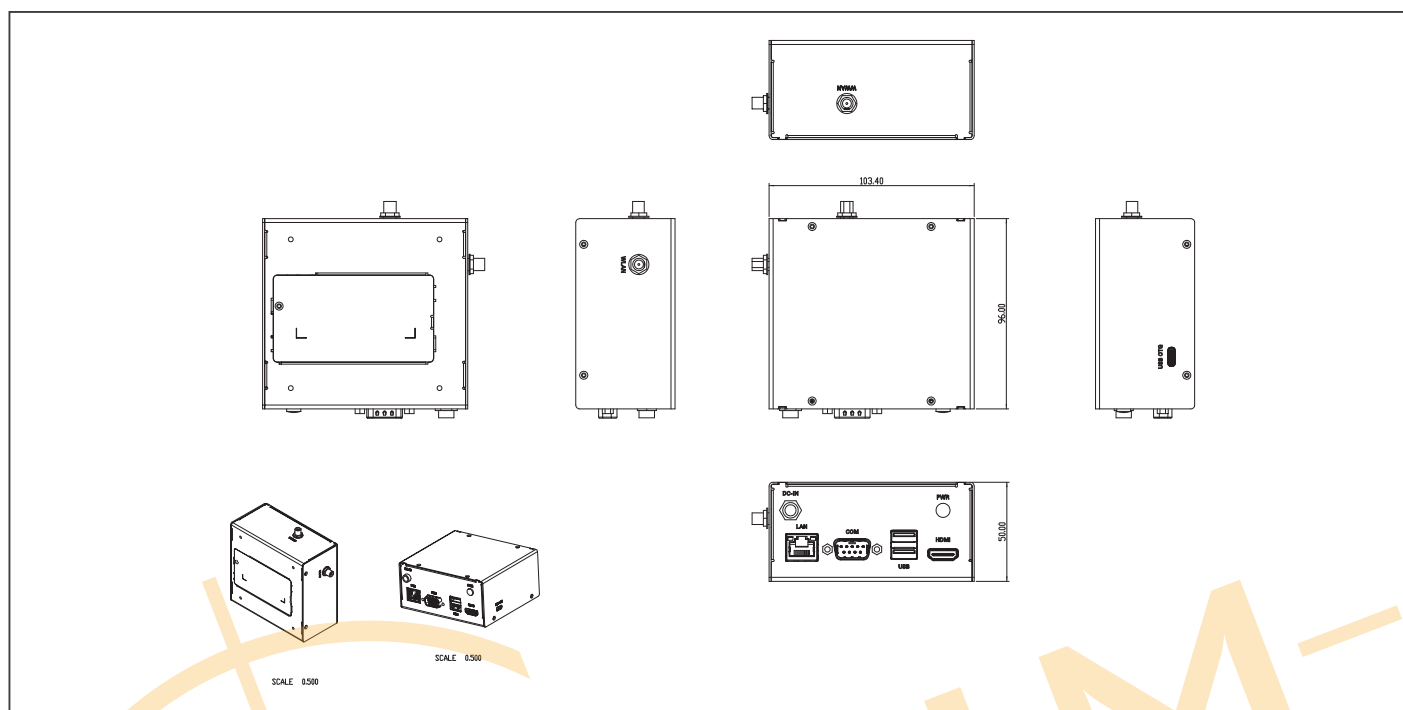
- Rockchip RK3399
- LPDDR3 2GB/4GB (Optional)
- eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0) Port x 1
- WiFi 802.11 b/g/n, BT V4.2
- GbE: RJ45 x 1
- USB 3.2 Gen 1: Type C OTG x 1, Type A x 1
- USB 2.0: Type A x 1
- RS-232/422/485 x 1, RS-232 x 1 (Optional)
- mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 8.1
- Compact Size (W x D x H): 103.4 mm x 96 mm x 50 mm

## Specifications

| System                |                                                                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                   | Rockchip RK3399<br>ARM Cortex™-A72 Dual-core 1.8GHz and Cortex™-A53 Quad-core 1.4GHz                                                                                                                                                                                        |
| GPU                   | Mali-T864                                                                                                                                                                                                                                                                   |
| Chipset               | —                                                                                                                                                                                                                                                                           |
| Graphics              | Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP8, VP9, MVC<br>Video Encode: H.264 UP to HP@level4.1, MVC and VP8                                                                                                                                        |
| System Memory         | LPDDR3 2GB/4GB (Optional)                                                                                                                                                                                                                                                   |
| Display Interface     | HDMI (2.0) up to 4K x 2K @ 60Hz                                                                                                                                                                                                                                             |
| Storage/SSD           | 16GB eMMC and Micro-SD card                                                                                                                                                                                                                                                 |
| I/O                   | Micro-SD Card Slot x 1<br>HDMI (2.0) Port x 1<br>Antenna Connector for WiFi 802.11 b/g/n, BT V4.2<br>Antenna Connector for LTE (Optional)<br>GbE: RJ45 x 1<br>USB 3.2 Gen 1: Type C OTG x 1, Type A x 1<br>USB 2.0: Type A x 1<br>RS-232/422/485 x 1, RS-232 x 1 (Optional) |
| Expansion             | mPCIe Slot x 1 for LTE module                                                                                                                                                                                                                                               |
| Indicator             | Power LED x 1                                                                                                                                                                                                                                                               |
| OS Support            | Android 8.1                                                                                                                                                                                                                                                                 |
| Power Supply          |                                                                                                                                                                                                                                                                             |
| Power Requirement     | +12V DC input                                                                                                                                                                                                                                                               |
| Mechanical            |                                                                                                                                                                                                                                                                             |
| Mounting              | VESA mount, 75mm x 75mm                                                                                                                                                                                                                                                     |
| Dimension (W x D x H) | 4.07" x 3.78" x 1.97" (103.4 mm x 96 mm x 50 mm)                                                                                                                                                                                                                            |
| Gross Weight          | 1.1 lb (0.5 Kg)                                                                                                                                                                                                                                                             |
| Net Weight            | 0.66 lb (0.3 Kg)                                                                                                                                                                                                                                                            |
| Environmental         |                                                                                                                                                                                                                                                                             |
| Operating Temperature | 32°F ~ 140°F (0°C ~ 60°C)                                                                                                                                                                                                                                                   |
| Storage Temperature   | -40°F ~ 176°F (-40°C ~ 80°C)                                                                                                                                                                                                                                                |
| Storage Humidity      | 0% ~ 90% relative humidity, non-condensing                                                                                                                                                                                                                                  |
| Anti-Vibration        | —                                                                                                                                                                                                                                                                           |
| Certification         | CE/FCC/IC                                                                                                                                                                                                                                                                   |

**Dimension**

Unit: mm

**Packing List**

- **BOXER-RK99**

**Optional Accessories**

- **125530060Y**  
12V / 60W Power Adapter
- **175990001X**  
WiFi 2.4GHz, External Antenna
- **9741EG25G0**  
EG25-G, W/ SIM Card Holder, RF Cable, External Antenna
- **M04BIBX000**  
Wall-mount Plate

**Ordering Information**

| Part Number         | CPU                                   | RAM        | Storage   | LAN     | RS-232             | USB | Display  | WiFi & BT                | 3G/LTE Slot    |
|---------------------|---------------------------------------|------------|-----------|---------|--------------------|-----|----------|--------------------------|----------------|
| BOXER-RK99-A10-0001 | ARM Dual Cortex-A72 + Quad Cortex-A53 | 2GB LPDDR3 | 16GB eMMC | GbE x 1 | 1 (RS-232/422/485) | 3   | 1 (HDMI) | 802.11 a/b/g BT4.2 + EDR | 1 (mPCIe Slot) |

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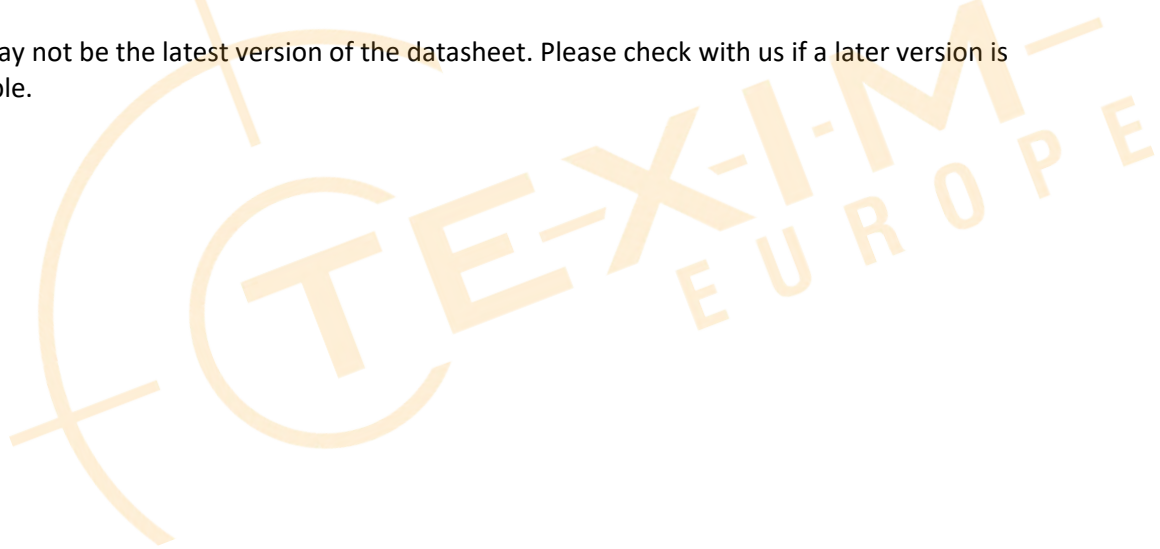
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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