



ECS ELITEGROUP LIVA M300-W Computer User Manual

[Home](#) » [ECS ELITEGROUP](#) » ECS ELITEGROUP LIVA M300-W Computer User Manual 

Contents

- [1 ECS ELITEGROUP LIVA M300-W Computer](#)
- [2 Preface](#)
- [3 Federal Communications Commission \(FCC\)](#)
- [4 Declaration of Conformity](#)
- [5 Safety Instructions](#)
 - [5.1 Setting up your system](#)
 - [5.2 Attention during use](#)
 - [5.3 Safety cautions and warnings](#)
- [6 Introducing the PC](#)
- [7 Specifications](#)
- [8 Front and Rear I/O](#)
- [9 Install the VESA Mount](#)
- [10 Motherboard Components](#)
- [11 Table of Motherboard Components](#)
- [12 Documents / Resources](#)
- [13 Related Posts](#)



ECS ELITEGROUP LIVA M300-W Computer



Preface

Copyright

This publication, including all photographs, illustrations and software, is protected under international copyright laws, with all rights reserved. Neither this manual, nor any of the material contained herein, may be reproduced without written consent of the author.

Version 1.0

Disclaimer

The information in this document is subject to change without notice. The manufacturer makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. The manufacturer reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of the manufacturer to notify any person of such revision or changes.

Trademark Recognition

Rockchip is a registered trademark of Rockchip Electronics Co.,Ltd. Other product names used in this manual are the properties of their respective owners and are acknowledged.

LIVA M300-W COMPUTER USER MANUAL

Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment onto an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Shielded interconnect cables and a shielded AC power cable must be employed with this equipment to ensure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

Declaration of Conformity

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This device is in conformity with the following EC/EMC directives:

- EN 55032:Electromagnetic compatibility of multimedia equipment – Emission requirements
- EN 61000-3-2: Electromagnetic Compatibility(EMC) Part 3-2: Limits-Limits for harmonic current emissions (equipment input current 16A per phase)
- EN 61000-3-3 Electromagnetic Compatibility(EMC) Part 3-3: Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current 16A per phase and not subject to conditional connection
- EN 55024 Information technology equipment-Immunity characteristics-Limits and methods of measurement.
- EN 60950 Safety for information technology equipment including electrical business equipment.
- EN 62368 Safety for information technology equipment including electrical business equipment.

Safety Instructions

Your system is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

Setting up your system

- Read and follow all instructions in the documentation before you operate your system.
- Do not use this product near water or a heated source such as a radiator.
- Set up the system on a stable surface.
- Openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation. Never insert objects of any kind into the ventilation openings.
- Use this product in environments with ambient temperatures between -10°C and +40°C.
- If you use an extension cord, make sure that the total ampere rating of the devices plugged into the extension cord does not exceed its ampere rating.

Attention during use

- Do not step on the power cord or let anything rest on top of it.
- Do not spill water or any other liquid on your system.
- When the system is turned OFF, a small amount of electrical current still flows. Always unplug all power, modem, and network cables from the power outlets before cleaning the system.

- If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
- The power cord or plug is damaged.
- Liquid has been spilled into the system.
- The system does not function properly even if you follow the operating instructions.
- The system was dropped or the cabinet is damaged.
- The system performance changes.

The warranty does not apply to products that have been disassembled by users.

CAUTION:

1. To assure continued FCC compliance:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

2. Exposure to Radio Frequency Radiation:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

Safety cautions and warnings

Product disposal notice

IMPORTANT:

This symbol if the crossed-out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

Nordic Lithium Cautions (for lithium-ion batteries)

CAUTION:

The danger of explosion if the battery is incorrectly replaced only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Product disposal notice

1. Do not place this product underneath heavy loads or in an unstable position.
2. Do not use or expose this product around magnetic fields as magnetic interference may affect the performance of the product.
3. Do not expose this product to high levels of direct sunlight, high humidity, or wet conditions.
4. Do not block the air vents to this product or impede the airflow in any way.

Canadian Department of Communications

This class B digital apparatus meets all requirements of the Canadian Interference-causing Equipment Regulations.

Software Development

For Android app development details, please refer to the official Android developer web site

<http://developer.android.com>

Introducing the PC

Introduction

Thank you for choosing LIVA M300-W Computer featuring Rockchip® RK3399K of great performance and with stylish and flexible design.

This computer is based on Rockchip® RK3399K Mobile platform. Low power processor with ARM Dual-Core Cortex-A72 and Quad-Cor-tex-A53 and integrates graphics, memory, and I/O interfaces into one solution. It supports DDR3L 2GB memory and a direct soldered down eMMC up to 32 GB storage, and one M.2 slot is for extending usage, It also can add additional storage from USB Flash Drive and Micro SD.

The system is equipped with a set of I/O ports at the front/rear panel, including three USB 2.0 ports, one USB 3.0 port, one DP 1.2 port, one COM connector, one Giga LAN connector, one HDMI 2.0 port, one MIC_In port, one Audio_Out port, one DC port, one power but-ton, one wireless antenna fixture.

LIVA M300-W COMPUTER USER MANUAL

Thank you for choosing LIVA M300-W Computer featuring Rockchip® RK3399K of great performance and with stylish and flexible design.

This computer is based on Rockchip® RK3399K Mobile platform. Low power processor with ARM Dual-Core Cortex-A72 and Quad-Cor-tex-A53 and integrates graphics, memory, and I/O interfaces into one solution. It supports DDR3L 2GB memory and a direct soldered down eMMC up to 32 GB storage, and one M.2 slot is for extending usage, It also can add additional storage from USB Flash Drive and Micro SD.

The system is equipped with a set of I/O ports at the front/rear panel, including three USB 2.0 ports, one USB 3.0 port, one DP 1.2 port, one COM connector, one Giga LAN connector, one HDMI 2.0 port, one MIC_In port, one Audio_Out port, one DC port, one power but-ton, one wireless antenna fixture.



Note:

ID design and specification may vary, please refer to actual goods you purchase.

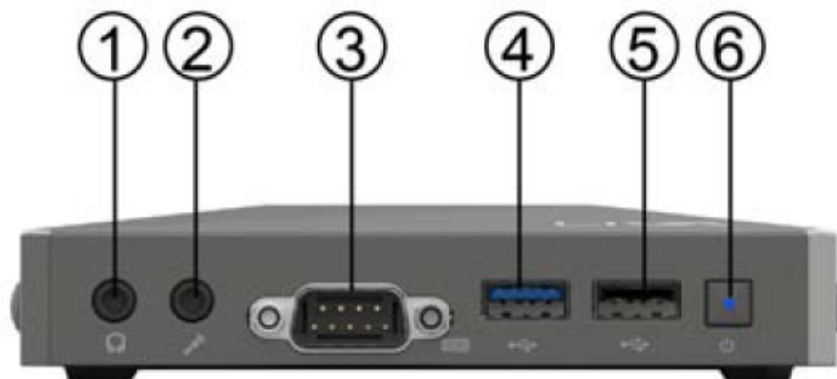
Specifications

- CPU/Chipset: Rockchip® RK3399K Dual-core Cortex-A72 up tp 1.8GHz Quad-core Cortex-A53 up to 1.4GHz
- Memory: Onboard DDR3L-1600 2GB
- Storage: Support eMMC 32 GB
- Panel I/O:
 - 3 x USB 2.0 ports
 - 1 x USB 3.0 port
 - 1 x Giga LAN connector
 - 1 x HDMI 2.0 port
 - 1 x DP 1.2 port
 - 1 x Wireless Antenna fixture

- 1 x DC port
- 1 x MIC_in port
- 1 x COM port
- 1 x Audio_Out port
- Internal Headers: 1 x Micro SD card slot
- & Connectors: 1 x Micro SIM slot
- Button and LED: The power button
- Light: Power: LED Light
- Audio • Realtek : ALC5640
- LAN • Realtek: RTL8211FDI
- Expansion Slot: M.2 key-B 3042 for 4G/5G module
- Power Supply: FSP050-DHAN3 AC Input: 100~240V/1.8A 50-60Hz DC Output: 12V/4.17A(50W Max.)
- Operation System: Android 8.1 / LINUX(Lubuntu 18.04)
- Heatsink Design: Heatsink
- Operation Temp: -10~+40°C
- Dimension: 128mm x 128mm x 26mm
- Color: Gray

Front and Rear I/O

Front and Rear I/O



Note:

ID design and specification may vary, please refer to actual goods you purchase.

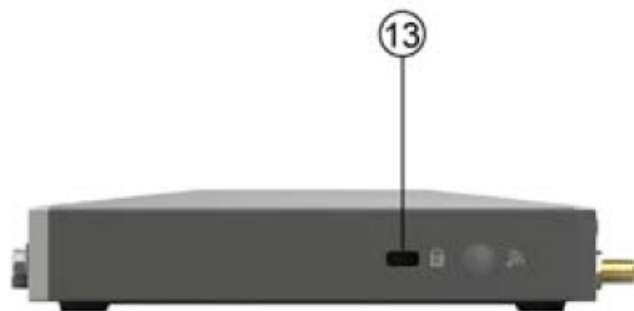
1. Audio_Out It is used to connect to speakers or headphones.
2. MIC_In It is used to connect to a microphone. Use the COM port to connect the serial port.
3. COM(RS232/422/485) Connect your USB 3.0 device to this port.
4. USB 3.0 Port Connect your USB 2.0 device to this port.
5. & 7. USB 2.0 Port
6. Power Button Use this button to power on/off the system.
- 7.



- 8. DP Port: You can connect the display device to the DP port.
- 9. HDMI Port: You can connect the display device to the HDMI port.
- 10. Giga LAN Port Connect the RJ-45 jack to the LAN ports for Network connecting.
- 11. Wireless Antenna This is a wireless 802.11 b/g/n and BT5.2 Antenna.
- 12. 12V DC_IN Port Connect the DC_IN port to the power adapter.

Side I/O

Side I/O



13. Security Key hole

This is security key hole.

Install the VESA Mount

1. Mount 4 screws on the VESA bracket.



2. Fasten 2 screws under the case.



3. Hold the case towards the VESA bracket and insert the screws into the holes.



4. Slide the case down until it is fixed.



Motherboard Components

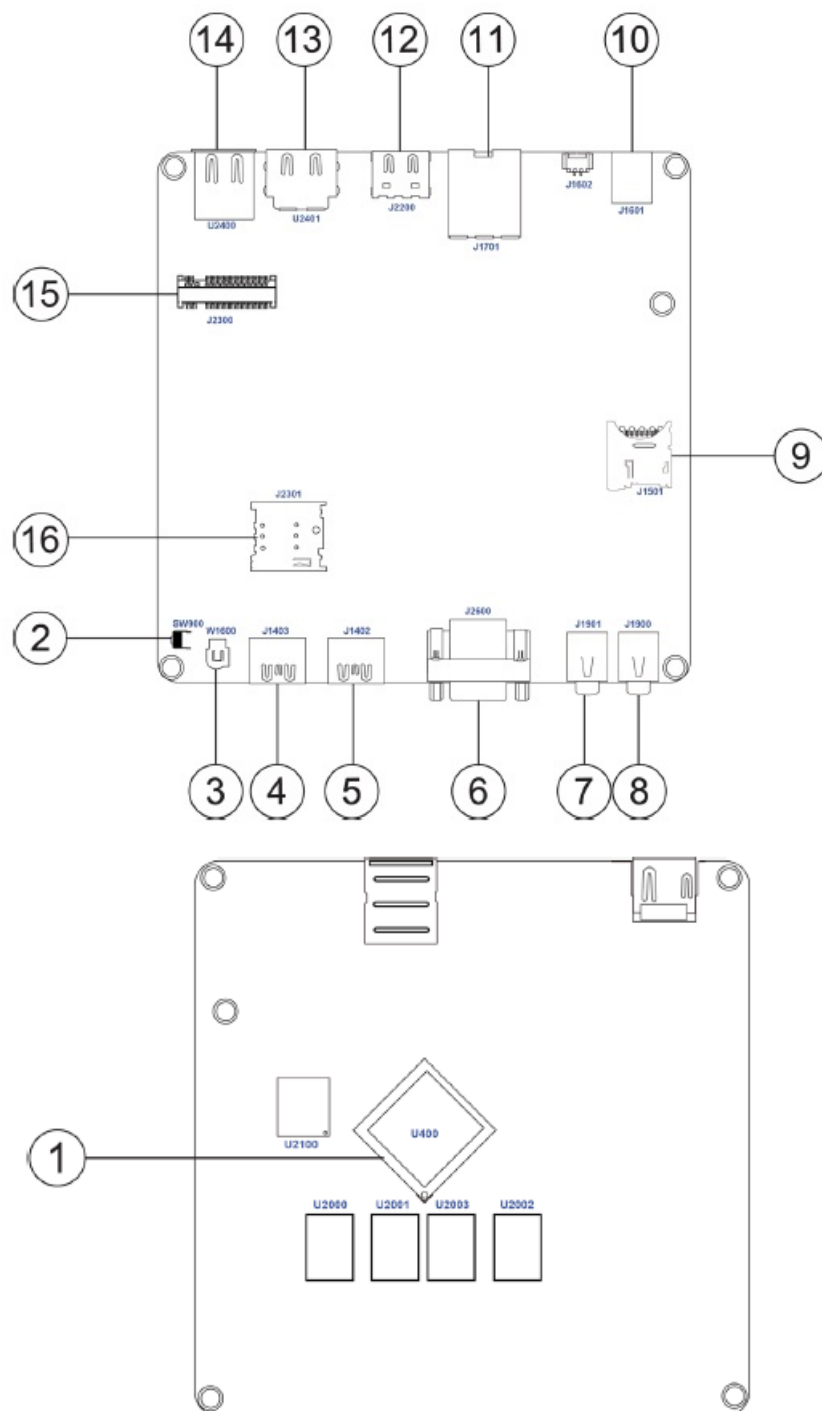



Table of Motherboard Components

LABEL	COMPONENTS
1. SoC	Rockchip® RK3399K
2. SW900	Recovery button

3. W1600	Power ON/Off button with state LED
4. J1403	Standard USB 2.0 port
5. J1402	Standard USB 3.0 port
6. J2600	RS232/422/485 COM Port
7. J1901	MIC_In Port
8. J1900	Audio_Out Port
9. J1501	Micro SD card slot
10. J1601	Power input port
11. J1701	Network connector
12. J3200	HDMI connector
13. U2401	DP connector
14. U2400	Standard USB 2.0 port
15. J2300	M.2 3042 key-B

16. J2301	Micro SIM card slot (note)
-----------	----------------------------

Documents / Resources

 <p>The image shows the front of a small, dark-colored computer unit. Above the unit, the text 'LIVA M300-W' and 'Rockchip RK3399K' is visible. Below the unit, there are logos for 'ECS ELITEGROUP' and 'HDMI'. At the very bottom, there is a small line of text: '© Copyright of Elitegroup Computer Co., Ltd. No. 118, Sec. 2, Xinying Rd., Hsinchu District, Hsinchu City, Taiwan 300011, Taiwan (ECS-ELITE)'.</p>	<p>ECS ELITEGROUP LIVA M300-W Computer [pdf] User Manual</p> <p>LIVAM300-W, LIVAM300W, WL6LIVAM300-W, WL6LIVAM300W, Rockchip RK3399K, LIVA M300-W Computer, LIVA M300-W, Computer</p>
--	---