zima
board

User's Manual
Single Board Server

zima
board

This manual is for
ZMB-216
ZMB-432
ZMB-832

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- Please read this manual carefully before using.
- Retain it for future reference.   Z120122-1-2077

Safety Precautions

⚠️ **WARNING!**	Contents marked with that symbol are related to the safety of the product and the personal safety of the users. Please operate in strict conformity to the contents, otherwise it may cause damage of the machine or injure the personal safety of the user.

🚫 **Prohibit**	Contents marked with that symbol are actions forbidden to perform. Performing of those actions may result in damage of the machine or injure the personal safety of the user.

- Always completely disconnect the power before working on the SATA or PCIe equipments.

🚫	• No connections should be made when the system is powered as a sudden rush of power may damage sensitive electronic components. • Do not cover the heat sink to ensure optimal heat dissipation. • Never pour any liquid into the openings or on the board. This could cause fire or electric shock. • Do not leave this device in an uncontrolled environment where the storage temperature is below -20°c (-4°f) or above 60°c (140°f) to prevent damage.

⚠️	• Position the power cord/ethernet cable so that people cannot step on it. Do not place anything over the power cord/ethernet cable. • If the device is not to be used for a long time, disconnect it from the power supply to avoid damage by transient over-voltage. • Avoid hot swapping/hot plugging the PCIe or SATA interface on ZimaBoard while it is powered.Only handle by the edges to minimize the risk of electrostatic discharge damage. • Avoid touching the heat sink when the system is running. • As most electronic components are sensitive to static electrical charge, be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and contain all electronic components in any static-shielded containers.

- Always disconnect this device from any power supply before cleaning.

- Make sure the device is installed near a power outlet and is easily accessible.

- Keep this device away from humidity.

- Place the device on a solid surface during installation to prevent falls.

- Watch out for high temperatures when the system is running.

- If any of the following situations arise, please contact our support:
  1: Damaged power cord or plug
  2: Liquid intrusion to the device
  3: Exposure to moisture
  4: Device is not working as expected or in a manner as described in this manual
  5: The device is crashed or damaged
  6: Any obvious signs of damage displayed on the device

- Any peripheral or equipment used with the ZimaBoard should comply
  with relevant standards for the country of use and be marked accordingly
  to ensure that safety and performance requirements are met. Such equipment
  includes, but is not limited to hard drives, monitors and PCIe cards.

Packing List

| 1 x ZimaBoard | 1 x SATA Cable | 1 x User Manual | 2 x Sticker |

Quick Start Guide

1 GETTING STARTED

Connect ZimaBoard with router or cable modem through an ethernet cable.

2 POWER

Plugin the power cable and see the light indicator for network flash. We recommend using the 12V 3A Adapter for powering ZimaBoard.

DC IN

ADAPTER   **CONNECTOR**

3 SETTING UP CasaOS

Open a new tab in browser and type in **http://casaos.local/**, hit enter

    http://casaos.local/

    Enter

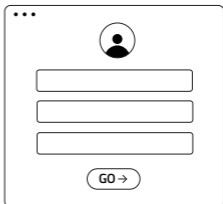## 4 CREATE YOUR ACCOUNT

    GO →

TIPS

Make sure your PC and ZimaBoard are in the same network/router.

If you can't discover casaos.local, visit **docs.zimaboard.com/jump/zb-mdns** for help.

Default account for Pre-installed Apps
Username: **casaos**   Password: **casaos**

Visit **docs.zimaboard.com** for more tutorials.

Know Your Ports

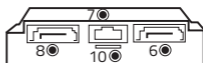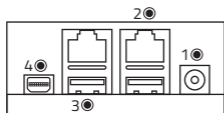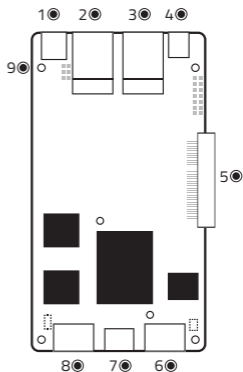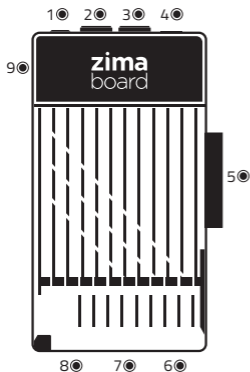Ethernet   USB   SATA   SATA Power   Power   MiniDP

Name of the Parts

Hardware Information

Interface Sheet

1◉ ----------- DC 12V 5.5x2.5mm	6◉ 8◉ ----------- SATA 3.0 Port
2◉ ----------- Gigabit Ethernet LAN	7◉ ----------- SATA Power
3◉ ----------- USB 3.0	9◉ ----------- Power Indicator
4◉ ----------- Mini-DisplayPort 1.2 Support 4K@60Hz	10◉ ----------- SATA Indicator
5◉ ----------- PCIe 2.0 x4 Slot	

Troubleshooting

Situation	Reason	How to Solve
Fail to boot	Wrong AC Adapter or loose connection	We recommend using ZimaBoard official 12V/3A DC power adapter. Make sure the connection is tight.
Can't reach page: casaos.local	Not on the same network; Operation system does not support mDNS; Router compatibility issues	Make sure PC and ZimaBoard are connected to the same router. Visit docs.zimaboard.com/jump/zb-mdns for help.
My monitor only has HDMI or VGA port	/	Use a MiniDP to HDMI or a MiniDP to VGA adapter.
No screen on/after boot	Loose connection; Power adapter failure	Make sure the connection is tight. Try with another DC power adapter; Try to power off ZimaBoard first, re-plug the MiniDP, and reboot.
System not responding/hanging	System failure	Reboot ZimaBoard. Unplug and reconnect the power adapter.

Visit **docs.zimaboard.com** for more information about common problems and corresponding solutions.
If you need further support, contact us via: **support@icewhale.org**

For 24/7 forum tech support, please visit **https://zimaboard.com/discord**

Did you enjoy CasaOS? Please leave your review and click star on Github:
https://github.com/IceWhaleTech/CasaOS

Specification

SOFTWARE

Pre-installed OS	CasaOS (Based on Debian)
Compatible OS	Linux / Windows / OpenWrt / pfSense / Android / Libreelec

PERFOMANCE

Model	ZimaBoard 216	ZimaBoard 432	ZimaBoard 832
Processor	Intel Celeron Processor 'Apollo Lake'		
	N3350 2 Cores 1.1GHz-2.4GHz 2MB L2 cache	N3450 4 Cores 1.1GHz-2.2GHz 2MB L2 cache	N3450 4 Cores 1.1GHz-2.2GHz 2MB L2 cache
Graphics	Intel® HD Graphics 500		
	200MHz-650MHz	200MHz-700MHz	200MHz-700MHz
Memory	2GB	4GB	8GB
Onboard Storage	16GB	32GB	32GB
TDP	6W	6W	6W

CONNECTIVITY

HDD/SSD	2x SATA 3.0 6Gb/s Ports
LAN	2x GbE LAN Ports
USB	2x USB 3.0
PCIe	1x PCIe 2.0 x4
Display	1x Mini-DisplayPort 1.2 4k@60Hz
Power	DC 12V 3A 5.5x2.5mm

SIZE AND WEIGHT

Dimensions	138.7mm(W) x 81.4mm(H) x 34.9mm(D)
Weight	278g