Thundercomm

Thundercomm TurboX C865 Development Kit

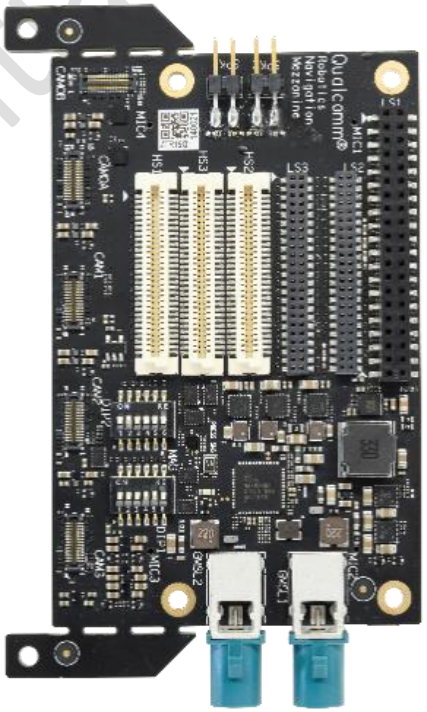
# Quick Start Guide

Rev. V1.0
DN: tc-a-2110

# Package List

C865 SOM

Main IO Board



Navigation Mezzanine Board

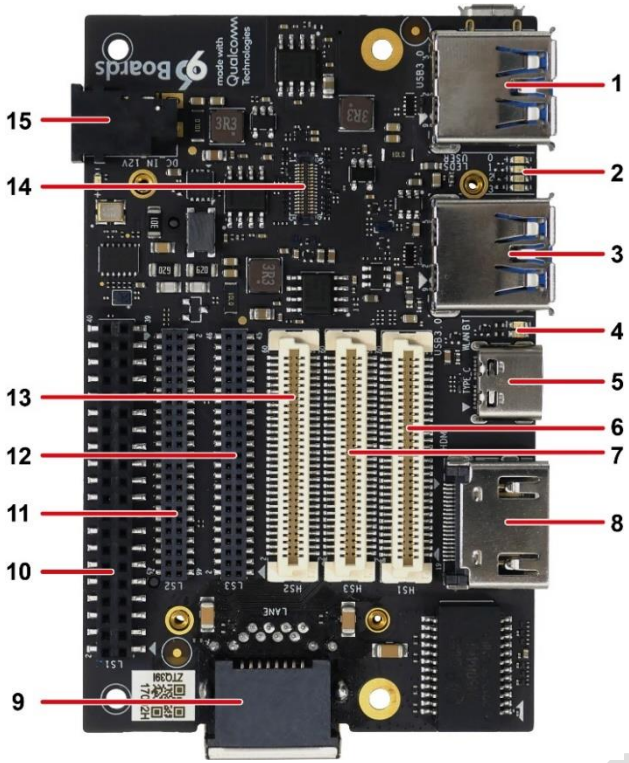
12V/2.5A AC Power Adaptor

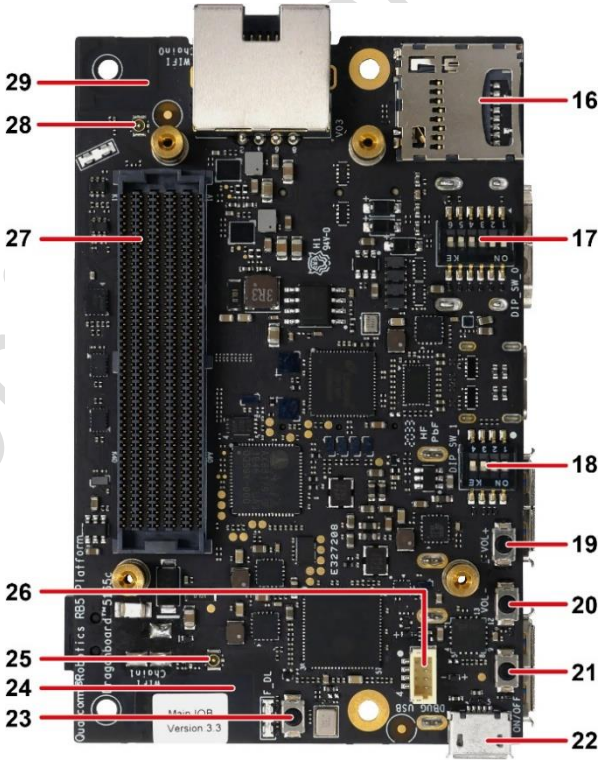
Main Camera IMX577 Module Kit

Tracking Camera OV9282 Module Kit

Speaker (x2)

# Main IO Board Interface List




| | | |
|---|---|---|
| 1. Type-A USB 3.0 connector | 11. LS2 low speed connector | 21. Power on button |
| 2. User LEDs | 12. LS2 low speed connector | 22. USB 2.0 debug connector |
| 3. Type-A USB 3.0 connector | 13. HS2 high speed connector | 23. Force USB connector |
| 4. BT/Wi-Fi LEDs | 14. NA | 24. Wi-Fi Ch1 on-board antenna |
| 5. Type-C USB 3.1 connector | 15. DC jack | 25. Wi-Fi Ch1 RF receptacle |
| 6. HS1 high speed connector | 16. Micro SD card slot | 26. GAN connector |
| 7. HS3 High Speed connector | 17. Dip Switch#1 | 27. B2B connector for C865 SOM |
| 8. HDMI connector | 18. Dip Switch#2 | 28. Wi-Fi Ch0 RF receptacle |
| 9. Ethernet connector | 19. Volume up button | 29. Wi-Fi Ch0 on-board antenna |
| 10. LS1 low speed connector | 20. Volume down button | - |

# Navigation Mezzanine Board Interface List

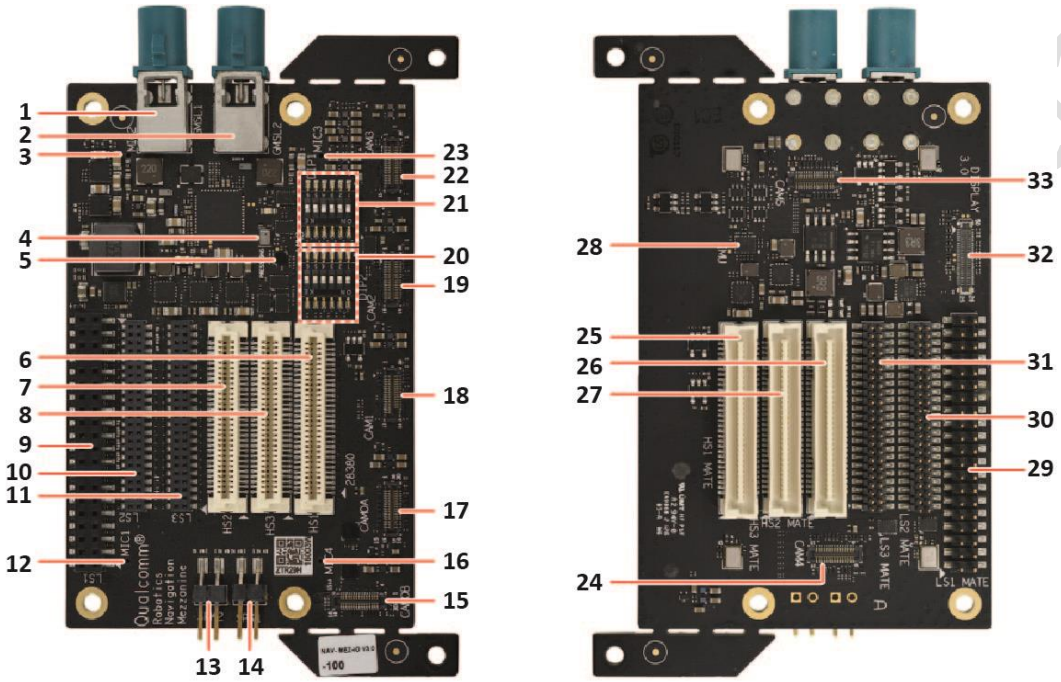



*Figure 2-1.Navigation Mezzanine Top & Bottom View*

***Table 2-1. Navigation mezzanine interface list***

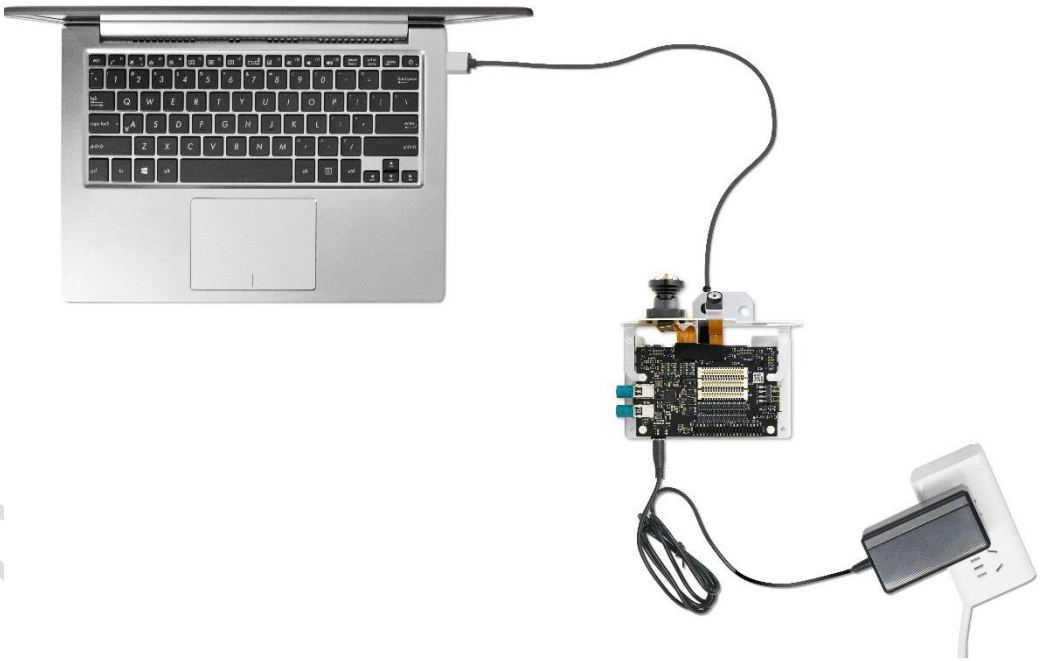
| | | |
|---|---|---|
| 1. GMSL1 connector | 12. MIC1 sound pickup hole | 23. MIC3 sound pickup hole |
| 2. GMSL2 connector | 13. Speaker connector 2 | 24. A+G IMU sensor |
| 3. MIC2 sound pickup hole | 14. Speaker connector 1 | 25. HS1 mate connector |
| 4. Pressure sensor | 15. CAM0B connector | 26. HS2 mate connector |
| 5. Compass sensor | 16. MIC4 sound pickup hole | 27. HS3 mate connector |
| 6. HS1 connector * | 17. CAM0A connector | 28. Cam4 connector |
| 7. HS2 connector | 18. Cam1 connector | 29. LS1 mate connector |
| 8. HS3 connector | 19. Cam2 connector | 30. LS2 mate connector |
| 9. LS3 connector | 20. DIP switch 2 | 31. LS3 mate connector |
| 10. LS2 connector | 21. DIP switch 1 | 32. Display connector |
| 11. LS3 connector | 22. CAM3 connector | 33. CAM5 connector |

** LS/HS mate connectors on navigation mezzanine goes to main IO LS/HS connectors*

# Let’s Get Started

Follow the steps below to boot up your device.

1. Remove C865 DK board carefully from the package.
2. Connect the power adapter to the board via **DC jack** (connector 15 on Main IO Board).
3. Connect the board assembly to a computer via
   - **Type-C USB 3.1 connector** (connector 5 on Main IO Board) if **adb** tool is needed.
   - **USB 2.0 debug connector** (connector 22 on Main IO Board) if debug function is needed.
4. Press **Power on button** (connector 21 on Main IO Board) for three seconds to boot up the device.



## Contact us

Email: service@thundercomm.com
Address: 1601 McCarthy Blvd Suite R-12 Milpitas CA,95035
Support software and documentation downloads: www.thundercomm.com

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