



Thundercomm TurboX C865 Development Kit User Guide

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Thundercomm TurboX C865 Development Kit

Thundercomm TurboX C865 Development Kit-fig1

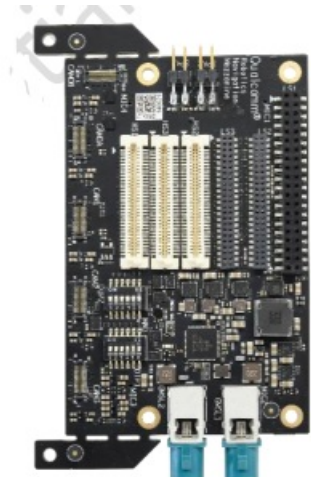
Package List



C865 SOM



Main IO Board



Navigation Mezzanine Board



12V/2.5A AC Power Adaptor



Main Camera IMX577 Module Kit

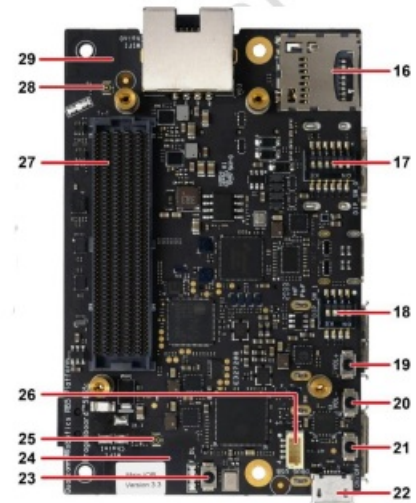
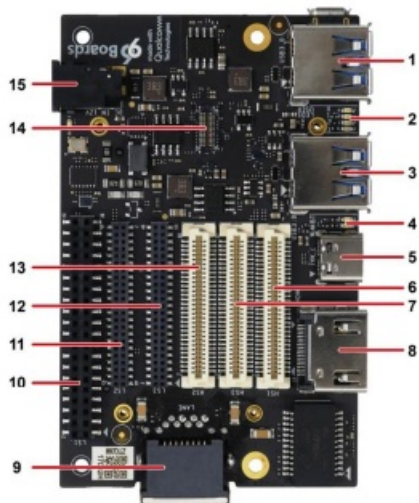


Tracking Camera OV9282 Module Kit



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 SO M
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

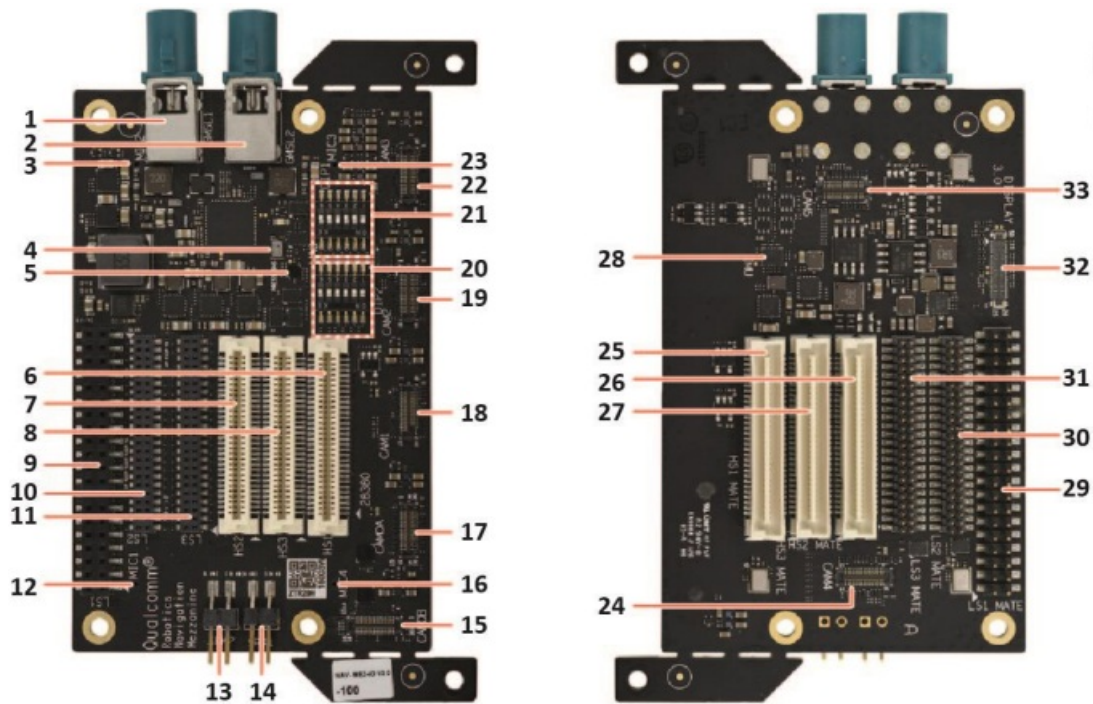


Figure 2-1. Navigation Mezzanine Top & Bottom View

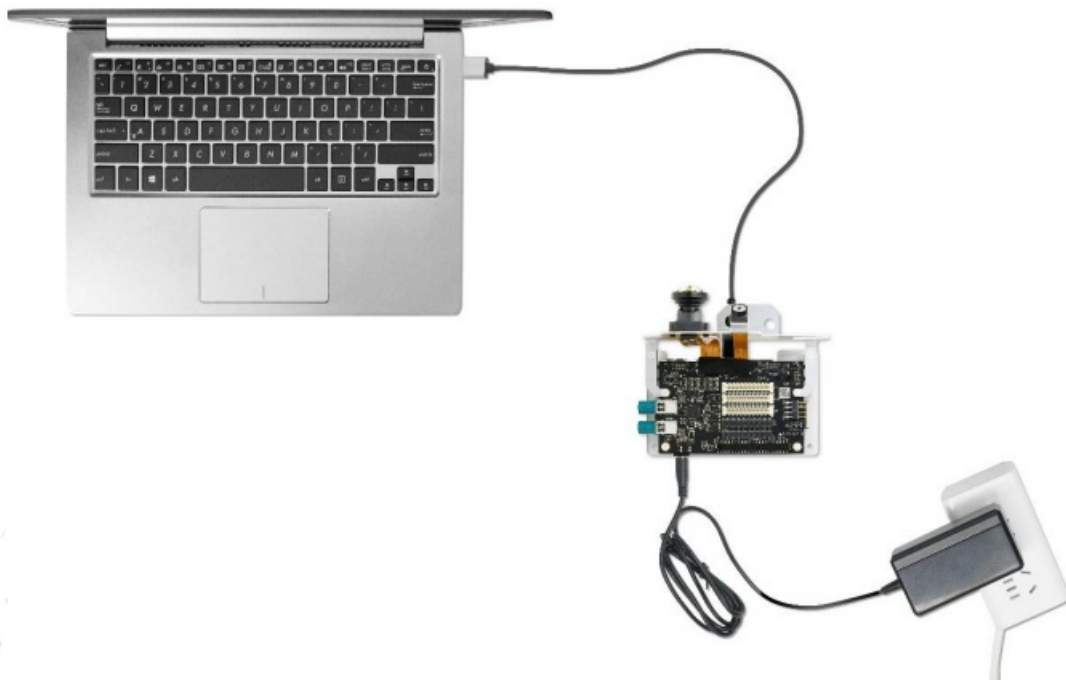
Table 2-1. Navigation mezzanine interface list

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.

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References

-  [Thundercomm - World leading IoT product and solution provider](#)
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