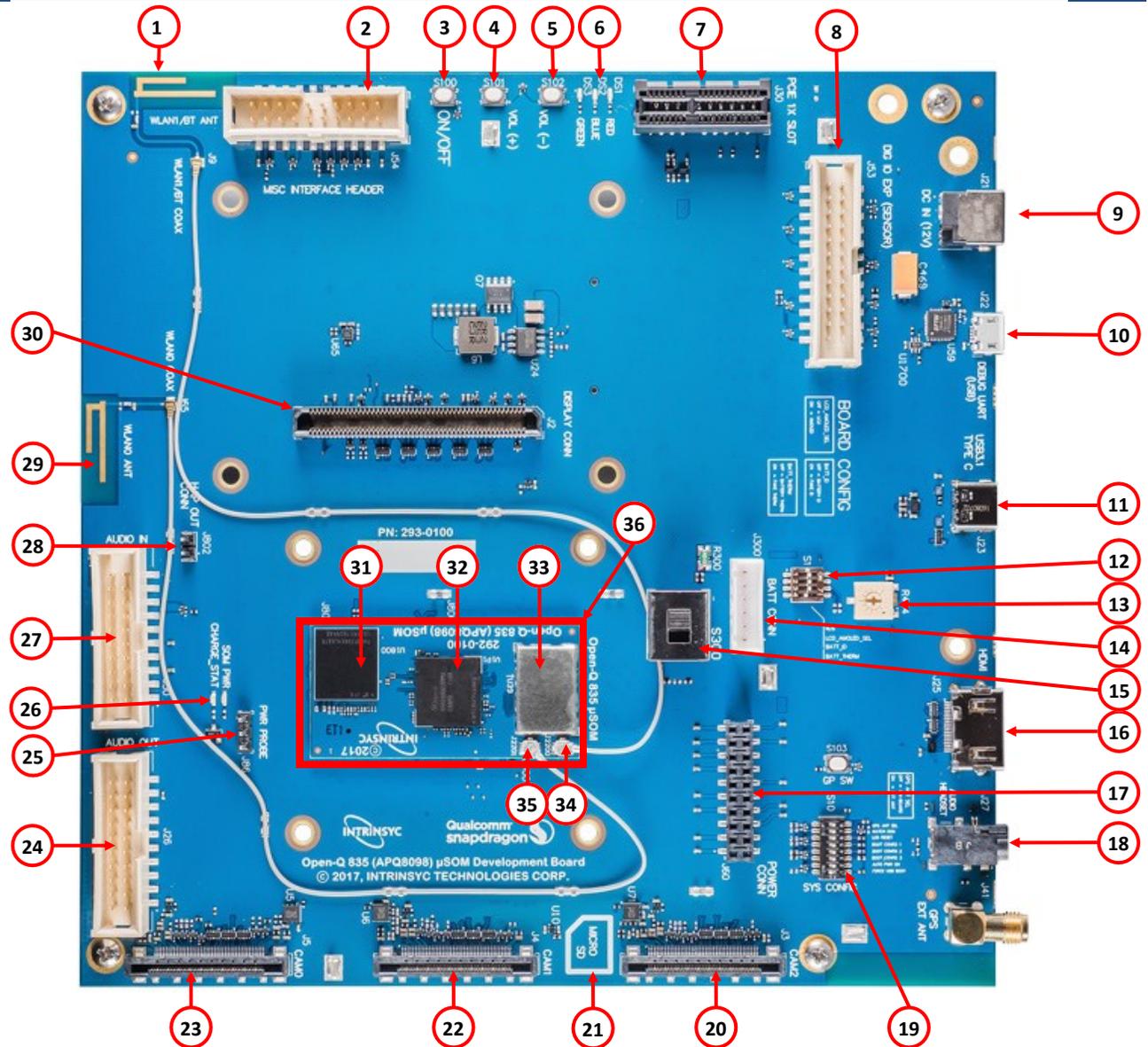


## Package Contents

1. Open-Q™ 835 μSOM with APQ8098 processor
2. Open-Q™ 835 μSOM Carrier board
3. AC Power Adapter
4. HDMI Video Cable
5. 4.5" FWVGA MIPI DSI LCD/touchscreen (optional accessory)

- |                                  |  |
|----------------------------------|--|
| 1. WLAN/BT PCB Antenna           | 24. Audio Out Expansion Header   |
| 2. Misc interface header (GPIO)  | 25. SOM power measurement header   |
| 3. Power button                  | 26. Power and Charging LEDs  |
| 4. Volume + button               | 27. Audio In Expansion Header  |
| 5. Volume - button               | 28. Haptic output header   |
| 6. User LEDs (red, blue green)   | 29. WLAN PCB Antenna   |
| 7. PCIe 1X Slot                  | 30. MIPI DSI LCD/touchscreen connector to interface with Intrinsic display adapter |
| 8. Sensor expansion header       | 31. UFS flash memory   |
| 9. 12V DC input jack             | 32. APQ8098 CPU with PoP RAM   |
| 10. Debug UART (USB MicroB)      | 33. Wi-Fi RF section under shield  |
| 11. USB Type-C connector         | 34. WLAN antenna connector 1 U.FL  |
| 12. Battery charge config switch | 35. WLAN antenna connector 2 U.FL  |
| 13. SOM Power voltage adjust     | 36. Open-Q 835 μSOM  |
| 14. Battery connector            |  |
| 15. Power source switch          |  |
| 16. HDMI video output            |  |
| 17. Power header                 |  |
| 18. 3.5 mm headset jack          |  |
| 19. Configuration DIP switches   |  |
| 20. MIPI camera 2 connector      |  |
| 21. Micro SD slot (on bottom)    |  |
| 22. MIPI camera 1 connector      |  |
| 23. MIPI camera 0 connector      |  |





# Open-Q™ 835 uSOM (APQ8098) Development Kit



## Development Kit Setup

- 1. At a static-safe workstation, remove the development kit board carefully from the anti-static bag**
- 2. If you do not have the optional LCD then connect the HDMI cable from the development kit (#16) to an HDMI display.**
- 3. Connect the Power Adapter to the 12V DC Jack (#9), then press and hold the power button (#3) for approximately 3 seconds. If using the LCD you will see the boot menu appear first, followed by the Intrinsic logo as the board boots up. If using HDMI the screen will remain blank for approximately 45 seconds before the Android screen appears.**
- 4. Documentation and software**

To access product documentation (schematics, user guides, programming guides, tech notes...), platform BSP software and much more, please register your product on our support site at the link below.

<https://support.intrinsyc.com/login>

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If you have previously registered on our support site for a different product then please contact us to request support access for your new product:

<https://www.intrinsyc.com/contact-support>

Please include the platform name (Open-Q 820, 410 etc.) and the SOM serial number in your message.

## Development Kit Support

For more information or assistance, you can contact us at:

<https://www.intrinsyc.com/contact-support>

Intrinsic also provides technical information and videos on Snapdragon processors at:

<http://www.intrinsyc.com/resources>

Should you require additional technical support for your Development Kit you can purchase a block of technical support hours from the Intrinsic store:

<https://www.intrinsyc.com/support>

Thank you for purchasing the Open-Q 835  $\mu$ SOM Development Kit  
The Intrinsic Team