



Open-Q™ μ820 (APQ8096) Development Kit Quick Start Guide

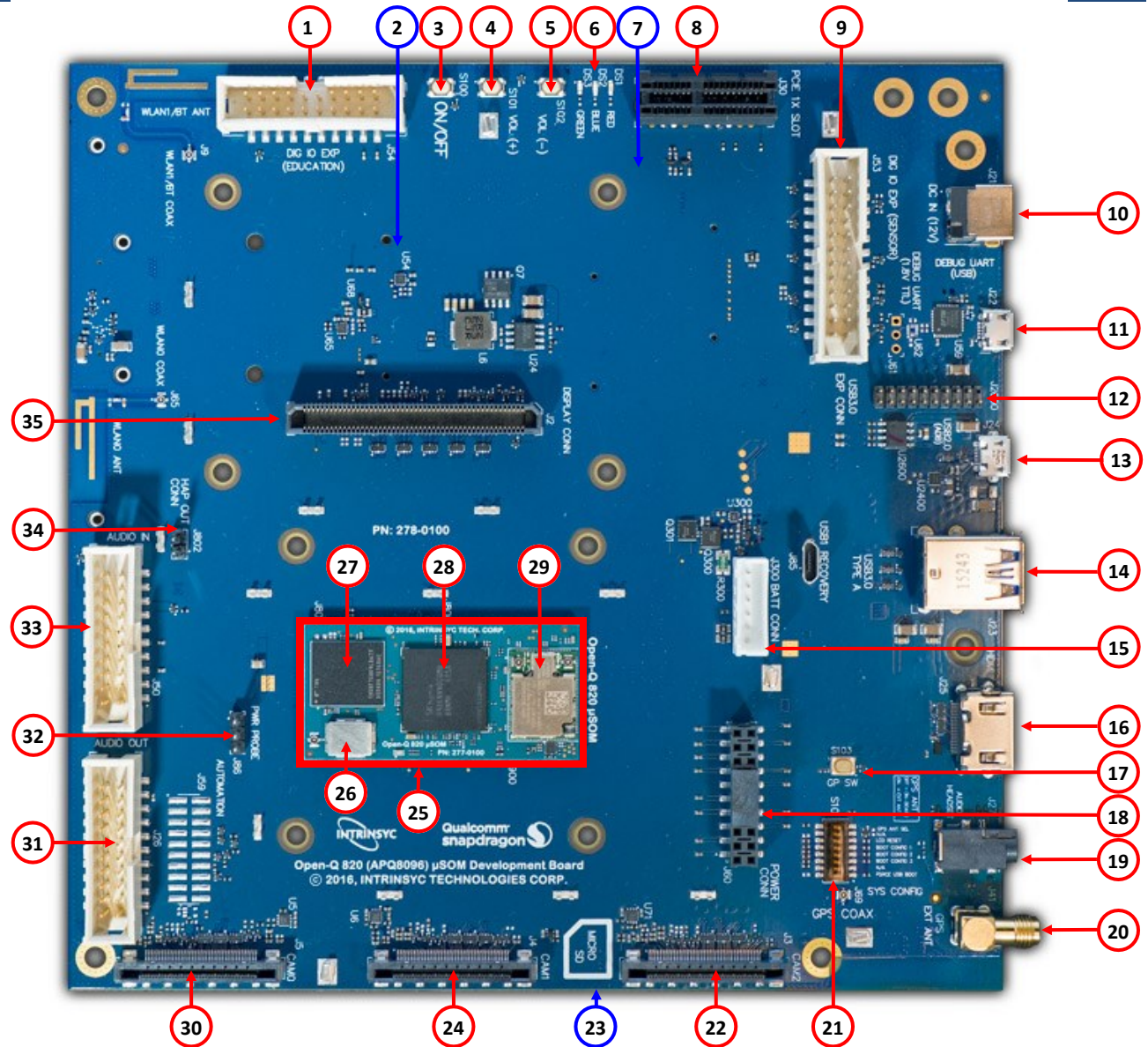


Package Contents

1. Open-Q™ 820 μSOM with APQ8096 processor
2. Carrier board
3. AC Power Adapter
4. 4.5" FWVGA MIPI DSI LCD/touchscreen (additional accessory)

- | | |
|-------------------------------------|--|
| 1. IO Expansion header EDU | 24. MIPI camera 1 connector |
| 2. Mini PCI Express socket * | 25. Open-Q μ820 System on Module (SOM) |
| 3. Power button | 26. GPS module WGR7640 |
| 4. Volume + button | 27. 32GB UFS |
| 5. Volume - button | 28. 3GB LP-DDR4 RAM Pop memory on top of Snapdragon APQ8096 processor |
| 6. 3 x LEDs | 29. WLAN module QCA6174 |
| 7. WWAN SIM card slot * | 30. MIPI camera 0 connector |
| 8. PCI Express slot | 31. Audio out header |
| 9. Sensors header | 32. SOM power measurement header |
| 10. 12V DC jack | 33. Audio in header |
| 11. USB debug UART Micro B | 34. Haptics output header |
| 12. USB 3.0 Expansion connector | 35. MIPI DSI LCD/touchscreen connector to interface with Intrinsyc display adapter |
| 13. USB 2.0 OTG Micro AB | |
| 14. Dual stacked USB 3.0 type A | |
| 15. Battery connector | |
| 16. HDMI out | |
| 17. General purpose button | |
| 18. Power header | |
| 19. ANC 3.5 mm headset jack | |
| 20. GPS ext. ant. SMA connector | |
| 21. Boot configuration DIP switches | |
| 22. MIPI camera 2 connector | |
| 23. Micro SD slot * | |

* on bottom side



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Development Kit Setup

- 1. Remove the development kit board carefully from the anti static bag**
- 2. Connect the HDMI cable from the development kit to a display**
- 3. Connect the Power Adapter to the development kit then press once the power button (S100), after approximately 30 seconds the board will boot automatically**
- 4. Documentation and software**

To access the documentation (schematics, user guides, datasheets, programming guides, tech notes...), platform BSP software and much more, please register at: <http://support.intrinsyc.com>

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Development Kit Support

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

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

Intrinsyc 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 Intrinsyc store:

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

Thank you for purchasing the Open-Q μ820 Development Kit
The Intrinsyc Team