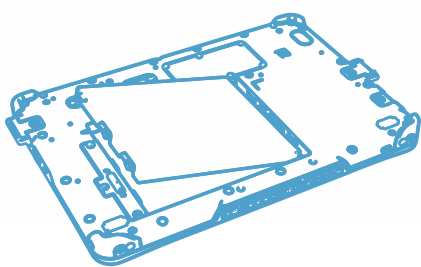


Battery and power management in rugged tablet pc reference design for DMS

Hot-swappable batteries allow extended full day fieldwork, user can concentrate on the assignment without worrying about power loss.

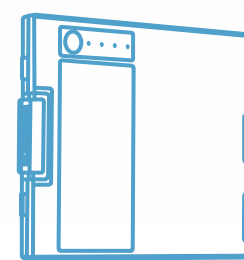


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Hot swappable battery

Hot-swappable batteries allow extended full day fieldwork, users can concentrate on the mission without worrying about power loss. It allows the user to replace the battery without shutting the tablet down.



Battery status indicator

Sysgration design is to ensure an uninterrupted task, before using the unit, users can check the current battery level by pressing battery level once and battery level indicator LEDs will show the current battery level.

9,060 mAh
8 Hours

Larger battery capacity

We select the 3.7 Volt, 9,060 mAh battery which is good for 8 hours. However, it all depends on the settings, tasks, screen brightness, and use case. Here is a simple breakdown.



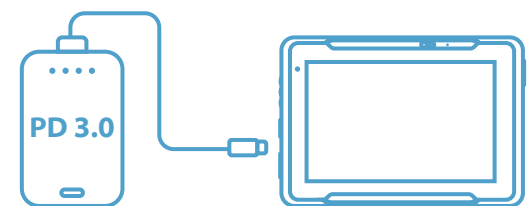
Standby
< 1uA



Suspend
Cellular enabled
2-5 mA



Suspend
Cellular disabled
50-100 mA



PD 3.0 and charging by power bank

USB Type-C Power Delivery allows our Tablet PC to deliver the high current output and it is able receive power. This solution is safely charging the tablet using a power bank to provide more power during the outdoor / field deployment.