HUAWEI ENTERPRISE A BETTER WAY

Consideration on bt PSE MPS to work with legacy PD

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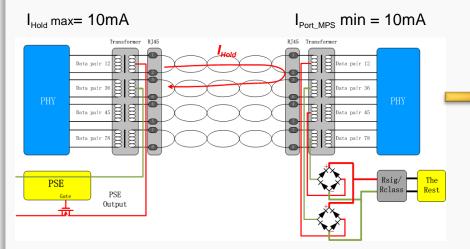
Outlines

> What's the challenge when BT PSE work with AT PD?

- Propose a solution
- > Summary

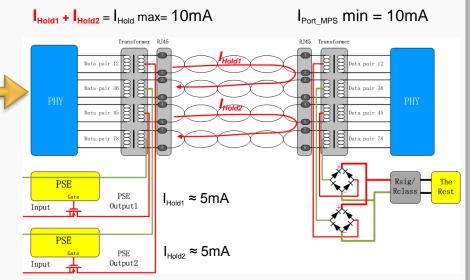
Challenge when BT PSE work with AT PD?

Type1/2 PSE connects to Type1/2 PD



A PSE shall consider the DC MPS component to be present if I_{Port} is greater than or equal to $I_{Hold}max=10mA$.

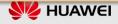
Type3/4 PSE connects to Type1/2 PD



When reuse two AT PSE design to supply BT power as people previously suggested,

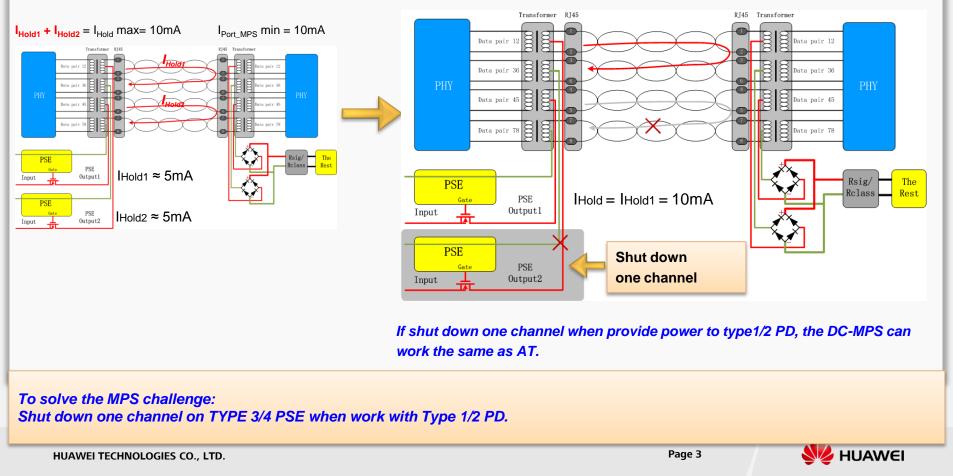
PSE on each channel SHALL consider PD MPS component to be present even if I_{Port} is 5mA or less.

When BT PSE works with AT PD, Type 3/4 PSE SHALL guarantee the I_{hold}max no greater than 10mA.



Solution: shut down one channel on PSE

Type3/4 PSE connects to Type1/2 PD



Summary

- When BT PSE works with AT PD, Type 3/4 PSE SHALL guarantee the I_{bold} max no greater ٠ than 10mA.
- When reusing two AT PSE design to supply BT power as people previously suggested, ٠ PSE on each channel SHALL consider PD MPS component to be present even if I_{Port} is 5mA or less.
- In order to reuse AT PSE chips and avoid the challenge, it's better to shut down one ٠ channel when providing power to Type1/2 PD.





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Thank you!



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