



# NXP Type-C End-to-End Fast Charging 8 A Total Solution

Our portfolio of USB Type-C application products offers entire software support for our proven, end-to-end solution for safe and seamless charging, from PD PPS adapters to Fast Chargers.

## NXP TYPE-C END-TO-END 2:1 SOLUTION ADVANTAGES

### ► Entire Software Support

- Supports whole charging algorithm through PPS
- Verifies entire SW for smartphone (MP now\*)
- Verifies entire SW for several applications

### ► End-to-End Solution

- NXP has a proven solution, from PD PPS adapters to fast chargers
- Evaluated/developed based upon total solution

### ► Safe / Seamless Charging

- Regulation loop enables safe/seamless charging for short, abnormal cases

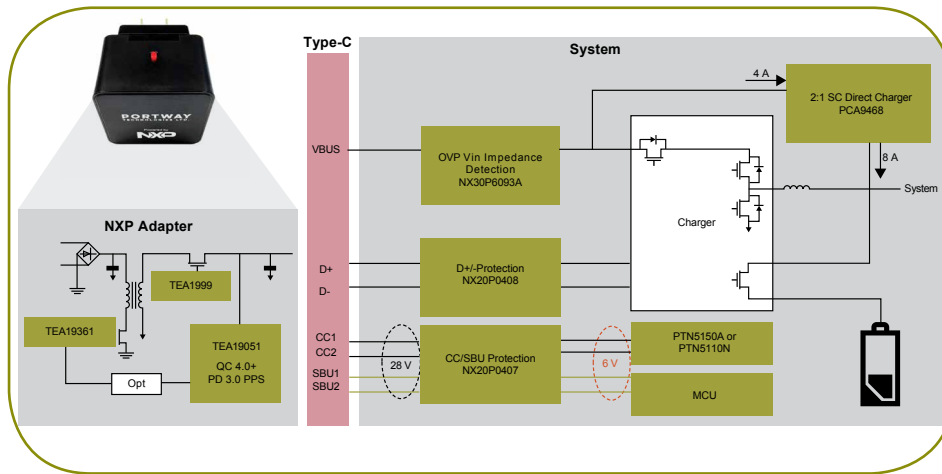
## NXP TYPE-C END-TO-END BOM

Part #	Description	Status
NX30P6093A	30 V bidirectional OVP with VIN impedance detection	MP now
NX20P0407	USB Type-C CC and SBU high-voltage protection with surge	MP now
NX20P0408	D+/D- high-voltage protection; signal bandwidth 1.5 GHz	MP now
PCA9468	2:1 switched cap direct charger with ~98 % efficiency	MP now
PTN5150A	USB Type-C CC logic controller	MP now
PTN5110N	USB Type-C Port Controller (TCPC) PD PHY	MP now
TEA19363	AC-DC primary controller	MP now
TEA1993	AC-DC secondary controller	MP now
TEA19051	USB PD 3.0 PPS and QC4.0+ protocol controller	MP now

\*MP now: mass production available now



## NXP TYPE-C END-TO-END FAST-CHARGING 8 A BLOCK DIAGRAM



## NXP 27 W PD 3.0/QC4+ ADAPTER

