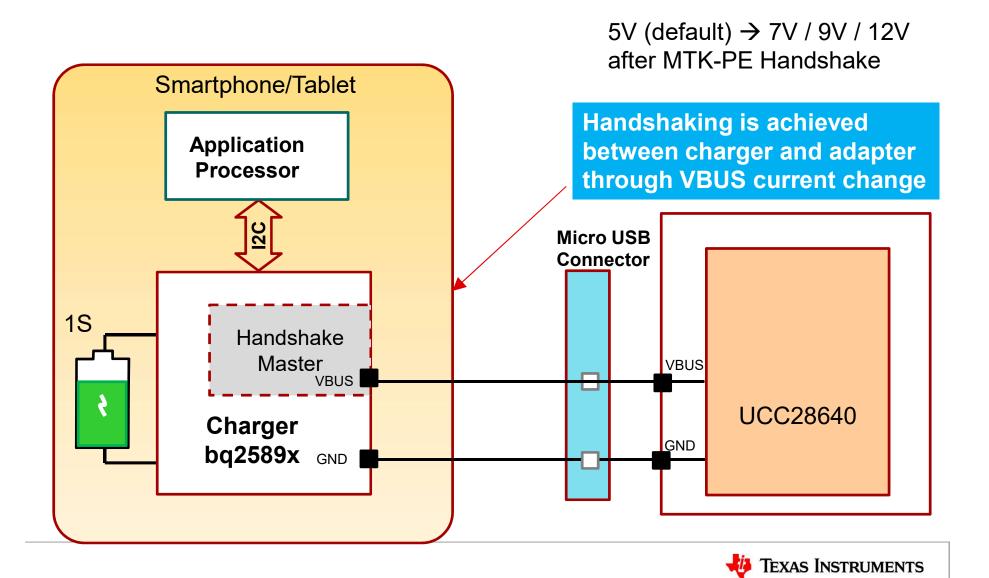
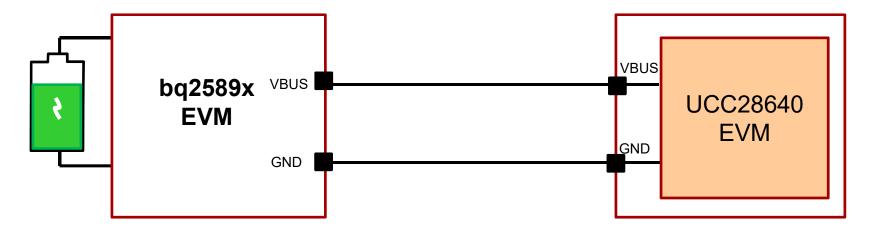
bq2589x Application Diagram with MTK-PE+



Evaluation Condition



- Charge Current: 2.048A
- Battery Voltage: 3.8V

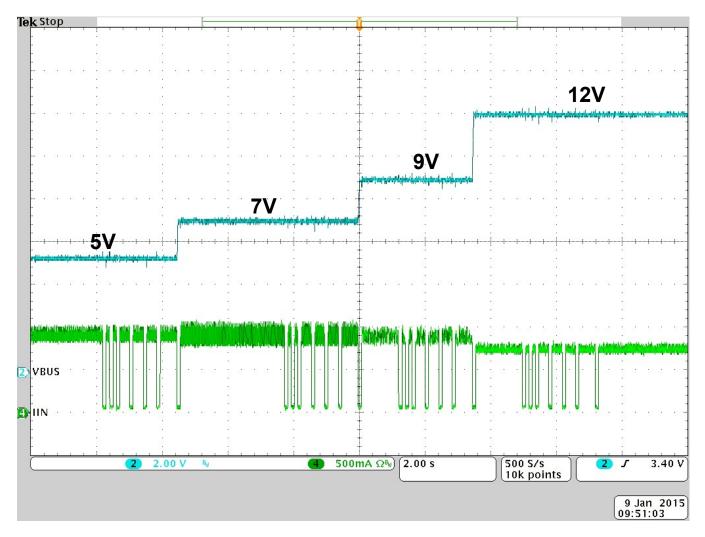
Register Bits for PE+ Control:

- EN_PUMPX (REG04[7]): 0 –Disable (default); 1 –Enable
- PUMPX_UP (REG09[1]): 0 Disable; 1 Enable PE+ Voltage Up
- PUMPX_DN(REG09[0]): 0 Disable; 1 Enable PE+ Voltage Down



^{*} Host must ensure PUMPX_UP and PUMPX_DN bits are not set while one of the sequences is in operations. The full sequence takes about 2.1s to complete.

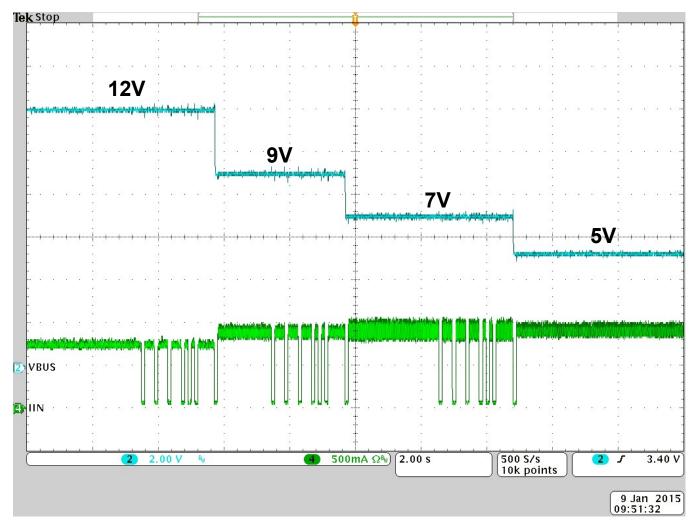
PE+ Adaptor Voltage Up



Adaptor Voltage: 5V (default) → 7V → 9V → 12V



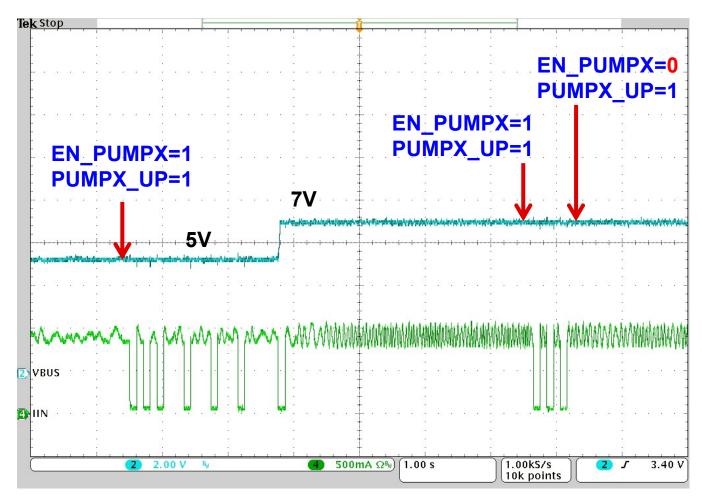
PE+ Adaptor Voltage Down



Adaptor Voltage: 12V → 9V → 7V → 5V



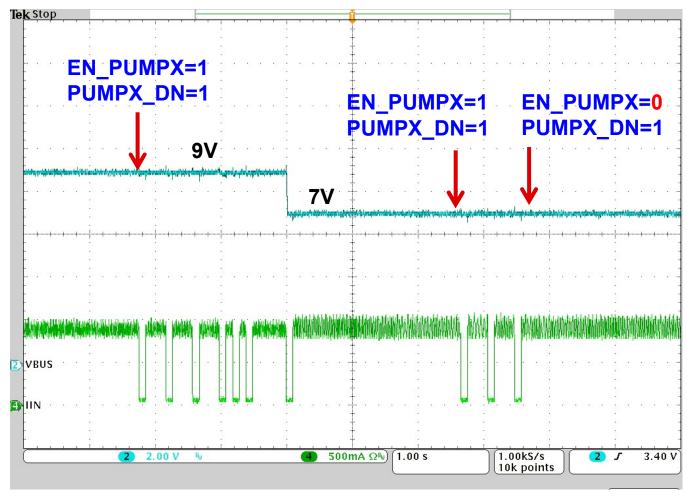
Stop Voltage Up During Operation



Adaptor voltage not goes up when EN_PUMPX is disabled even the voltage up process has started.



Stop Voltage Down During Operation



Adaptor voltage not goes down when EN_PUMPX is disabled even the voltage down process has started.

