

# 60W USB-C PD3.0 Charger w/PPS

## Innovation

This design demonstrates the potential of a 4-switch synchronous buck boost controller along with a fully compliant USB Type-C r1.4 and PD3.0 adaptive source charging controller.

## Value Advantage

This solution is fully autonomous and does not rely on an external MCU. It is fully compliant with the latest PPS standards including v1.2 ECRs.

- ✓ 4.5V-32V input and 5V, 9V, 12V, 15V, 20V output for USB PD applications
- ✓ Four integrated drivers
- ✓ HV protection on the controller

## Current Proposition

NCV81599 - USB Power Delivery 4-Switch Buck Boost Controller

FUSB3307 - USB Power Delivery 3.0 Adaptive Source Charging Controller

## Roadmap

Future developments include further integration of ON Semiconductor's USB-C PD technology. Other efforts include adding HV and moisture protection to controllers.

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# NFC/RF EEPROM



## Innovation

The N24RF04/16/64 Family are RFID/NFC Tags with EEPROM Memory on board

- ISO/IEC 15693 RF Protocol
- Read/writeable EEPROM (EEPROM can be locked/password protected)

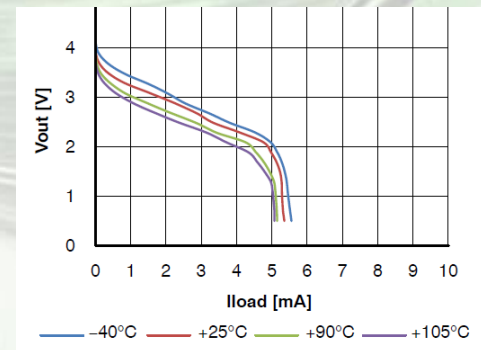
## Flexibility

- Capable of read/write using RF power, without battery
- Capable of read/write via I<sup>2</sup>C (from  $\mu$ C)
- Capable of powering other devices from extra RF power (Energy harvesting option)
- Anti-Collision Support

## Portfolio

EEPROM Density	Without Energy Harvesting	With Energy Harvesting
4 kb	N24RF04	N24RF04E
16 kb	N24RF16	N24RF16E
64 kb	N24RF64	N24RF64E

**Energy Harvesting Power Output**  
(field strength 2.4 A/m)



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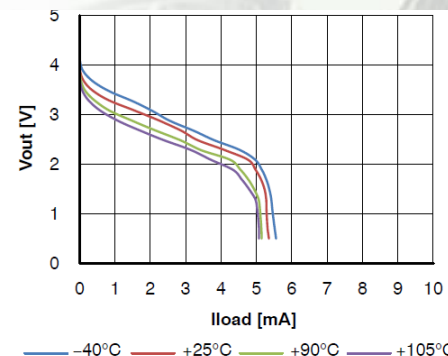


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## Other Features