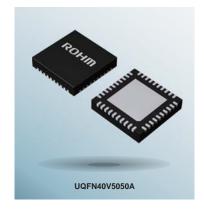


USB Type-C and Power Delivery Compatible Controllers

BM92Txx Series



Supports USB's revolutionary Type-C and Power Delivery standards

Product Outline

The BM92Txx series of power receiver controllers are compatible with the latest USB Type-C (Rev1.1) and USB PD (Rev2.0) standards. An extension of the USB Type-C mechanical / electrical specifications, USB PD allows for unprecedented, scalable power transfer (up to 100W) in both directions by enabling connected devices to negotiate a power contract to determine the Host (Provider) and Device (Consumer) and how much power is available/needed. This ensures optimimum power efficiency, since only the required amount of power is requested and only the available amount of power is supplied. ROHM controllers also support Display Port Alternate Mode for carrying video over USB, eliminating the need for dedicated video cables. These latest USB specifications represent a breakthrough, all-in-one cable solution for delivering power, data, and video over a single compact, reversible, flippable cable that provides unmatched flexibility and convenience while reducing clutter and waste.

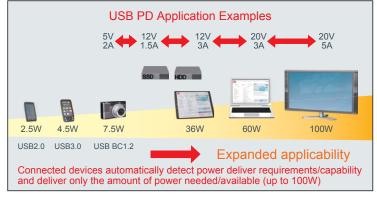
Enables power delivery up to 100W over USB Type-C connector

- Supports the latest USB Type-C and Power Delivery standards
- Common power source provides greater convenience and simplicity
- · Reduced industrial waste contributes to environmental sustainability
- Scalable power delivery up to 100W
 - Charge smartphones, tablets, and other handhelds over 4x faster than the previous standard
 - Power larger devices such as laptops, TVs and LCD monitors over USB Type-C
- Enables implementation in AC adapters and power outlets

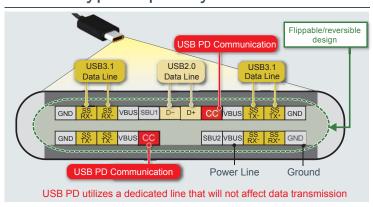
Part No.		Application Examples
BM92T10MWV	Receiver/Supply	Receiver/Supply
BM92T30MWV	Receiver/Supply (Supports Alternate Mode)	Receiver/Supply + Alternate Mode
BM92T20MWV	AC Adapters (ACDC Supply)	Supply
BM92T50MWV	DC Input (Supply)	Supply

Supports a wide range of power requirements

- USB Type-C Rev1.1 and Power Delivery Rev2.0 compliant
- Voltage and current values negotiated for optimum power delivery
- Enables power source switching without changing direction
- Multiple power delivery Provides safe variable voltage control (i.e. $5V \rightarrow 20V$, $20V \rightarrow 12V$) optimize charging performance
- Standalone operation possible without CPU
- Proprietary high voltage processes and circuit technology minimize number of external parts required



USB Type-C pin layout



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