



## Living USB 3.0 Power Delivery Controller

The EJ888 is a USB Power Delivery (PD) controller which is compliant with USB Power Delivery Specification Revision 1.0, USB Power Delivery controller could negotiate voltage, current and power direction with PD link partner to transfer up to 100W of power over USB PD cable.

The EJ888 can be configured by serial EEPROM or system controller to select different operation role, including Provider, Consumer, Provider/Consumer and Consumer/Provider. EJ888 supports all PD standard profiles from 5V/2A 10W up to 20V/5A 100W, beside PD relevant functions, EJ888 also integrated USB Battery Charging (BC) feature, which follows USB BC1.2 and China YD/T1591-2009 charging specification, to provide protocol handshake signals to BC portable devices and allow BC portable devices to draw more current from USB port.

The EJ888 embedded 5V to 3.3V and 3.3V to 1.8V LDO to reduce component count and PCB space.

### Features:

- USB Power Delivery Specification
  - Support PD provider mode
  - Support PD consumer mode
  - Support PD provider/ consumer, consumer/provider swap mode
  - Support PD profile 1~5
- support USB B.C 1.2/China battery charge mode
- I2C/SMBus Interface
  - Support master/slave mode to communicate with EEPROM or microcontroller
- Integrated LDOs to save BOM cost
- Power saving state
  - EJ888 could enter suspend mode to sync with system power state
  - EJ888 could keep charging plug-in device while system is in suspend mode
- Package
  - 24-QFN (4mm x 4mm)



Living Buffer DRAM Solution

Living USB3.0 Host Controller

Living USB 3.0 Flash Drive Controller

Living USB3.0 Power Delivery Controller

Living Webcam Controller

## Product Information:

	EJ888
Compliant spec	PD Rev. 1.0
Role support	Provider, Consumer, Provider/Consumer and Consumer/Provider
Profile support	Profile 1~5
Package Type	24-QFN
Body Size	4mm x 4mm

## Applications:

Computer	Consumer	Power Supplies
<ul style="list-style-type: none"> <li>• PC</li> <li>• NB</li> <li>• Monitor</li> <li>• Docking</li> <li>• HDD</li> <li>• Printer</li> </ul>	<ul style="list-style-type: none"> <li>• Tablet</li> <li>• Smartphone</li> <li>• TV</li> <li>• STB</li> <li>• Camera</li> </ul>	<ul style="list-style-type: none"> <li>• AC/DC Power Supplies</li> <li>• Automotive Charging Accessories</li> <li>• Wall USB Charger</li> </ul>