

The MPX2001 is an all-in-one flyback controller solution. The MPX2001 integrates a primary driving circuit, secondary controller and synchronous rectification driver all in one chip, maintaining the benefits of both primary-side regulation (PSR) and secondary-side regulation (SSR).

With the MPX2001, system complexity can be reduced since no extra feedback circuit is needed. Therefore, the total BOM cost is reduced. At the same time, a synchronous rectifier (SR) can be matched perfectly with the driving signal of the primary-side MOSFET. With this feature, the SR can operate safely in continuous conduction mode (CCM), which helps increase overall efficiency and provides the design with more flexibility.

The MPX2001 is available in a SOICW-20 package.

Kit Contents

- EVX2001 Evaluation Board (EVX2001-Y-02C)
- USBCEE Power Adapter Tester (PAT)
- USB thumb drive that stores the USBCEE PAT Utility
- Micro USB Cable and Type-C Cable



*Laptop not included

Feature	Specification
Operating Input Voltage	90Vac -265Vac
Operating Output Voltage	5V/9V/15V/20V
Operating Output Current	3A/3A/3A/2.25A
Operating Systems Supported	Windows XP, 7, and later
System Requirements	Minimum 50 MB free
Utility Software	USBCEE PAT Utility and Cypress' EZ-PD™ Configuration Utility
EVB Size (L x W)	6.7 cm x 3.9 cm

Quick Start (Refer to user guide for more details.)

1. Install the USB PAT Utility.
2. Connect the PC, USBCEE PAT and Power Adapter as below figure shows. Solder two wires from VBUS and GND on the USBCEE PAT to connect to electric load if necessary.
3. Open the USBCEE PAT Utility.
4. Supply the input power to EVX2001-Y-02C.
5. Set different output voltage manually/automatically by USBCEE PAT Utility.

*Kit offers rapid application assessment and requires minimal external components

