



NCP1247USBPDGEVB: Fixed Frequency Current Mode PWM Controller Evaluation Board

The NCP1247USBPDGEVB evaluation board is a flyback-topology switched-mode power supply designed for USB PD (power delivery) applications. It works in input voltage range from 90 Vac to 265 Vac and provides the output voltages 5 V, 12 V and 20 V up to 3 A of output current. The regulation of switched-mode power supply is ensured by the NCP1247 – a new fixed frequency current mode PWM controller with HV startup. The output voltage value (5 V, 12 V or 20 V) is set by the MCU controller CYPD1132-16SXI. The CCG1 Host Board from Cypress Semiconductor can be used for an easy demonstration how the power supply for USB PD application works. Communication between the NCP1247USBPDGEVB evaluation board and CCG1 Host Board is ensured by a USB Type-C cable (it uses the CC wire for communication and the VBUS wire for energy transmission).



Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1247USBPDGEVB	Active	Pb-free	Fixed Frequency Current Mode PWM Controller Evaluation Board	NCP1247BD065R2G	>> Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1247USBPDGEVB Bill of Materials ROHS Compliant	NCP1247USBPDGEVB_BOM_ROHS.pdf - 135 KB	1
Eval Board: Gerber	NCP1247USBPDGEVB Gerber Layout Files (Zip Format)	NCP1247USBPDGEVB_GERBER.zip - 113 KB	0
Eval Board: Schematic	NCP1247USBPDGEVB Schematic	NCP1247USBPDGEVB_SCHEMATIC.pdf - 132 KB	0
Eval Board: Test Procedure	NCP1247USBPDGEVB Test Procedure	NCP1247USBPDGEVB_TEST_PROCEDURE.pdf - 1017 KB	0
Software	NCP1247USBPDGEVB Hex File (Zip Format)	NCP1247USBPDGEVB_HEX_FILE.zip - 28 KB	0
Video	Fixed Frequency Current Mode PWM Controller Evaluation Board - NCP1247USBPDGEVB	WVD17568/D	

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