

Selection. Service. Support. Power Solutions from ON Semiconductor

n Part #/Keyword

Contact Us | Company

n Cross - Reference

Investors



HOME

PRODUCTS

DESIGN SUPPORT

APPLICATIONS

QUALITY

My ON: Sign In

» Advanced

Design Support

Technical Documentation



Design & Development Tools

Conversion Services

Evaluation Boards

Evaluation Board Documents

Mixed - Signal Foundry Services

Sample Kits

Simulation Models

Software

Product Recommendation Tools

Video

Technical Support

Home > Support > Design Support > Design Resources **Boards**

NCP1521UEVB:Step Down Converter Evaluation **Board**

Evaluation Board Description

The NCP1521B step -down PWM DC-DC converter is optimized for portable applications powered from one cell Li -ion or three cell Alkaline/NiCd/NiMH batteries. The part is available

in adjustable

output voltage versions ranging from 0.9 V to 3.3 V. It uses synchronous rectification to increase efficiency and reduce external part count. The device also has a built -in 1.5 MHz (nominal) oscillator which reduces component size by allowing smaller inductors and capacitors. Automatic switching PWM/PFM mode offers improved system efficiency. Additional features include -start, cycle -by-cycle current limiting integrated soft and thermal shutdown protection. The NCP1521B is available in space saving, low profile TSOP5 and UDFN6 packages.

Features and Applications

Features

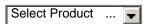
- ² 96% efficiency, 30 uA quiescent current, 0.3 uA shutdown current
- 1.5 MHz switching frequency
- ? Auto -switching between PWM and PFM mode at light load conditions
- ? Adjustable output voltage from 0.9V to 3.3V
- Best in class Low Ripple even in PFM mode

Evaluation Board Information Evaluation Short Description Status Parts Used Action **Board** Step Down Contact NCP1521BMUTBG NCP1521UEVB **Local Sales** Converter Active **Evaluation Board** Office

Technical Documents			
Туре	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1521UEVB Bill of Matrerials ROHS Compliant	NCP1521UEVB_BOM_ROHS.PDF - 82.0 KB	0
Eval Board: Gerber	NCP1521UEVB Gerber Layout Files (Zip Format)	NCP1521UEVB_GERBER.ZIP - 88.0 KB	0
Eval Board: Schematic	NCP1521UEVB Schematic	NCP1521UEVB_SCHEMATIC.PDF - 118.0 KB	0
Eval Board: Test Procedure	NCP1521UEVB Test Procedure	NCP1521UEVB_TEST_PROCEDURE.PDF - 141.0 KB	0

Previously Viewed Products

or Register



| Careers



Clear List

Design Support

Technical Documentation Design Resources Technical Support Sales Support

Careers