

## 1MHz High Output current High Efficiency Synchronous Step-Up Converter

### DESCRIPTION

ETA1090 is an ETA Solutions' high efficiency, high frequency synchronous Step-Up converter, capable of delivering output current up to 3A at a 5V output from a 3.6V input. With a low  $R_{ds(on)}$  Power MOS and a built-in synchronous rectifier, its efficiency can be as high as 91% at a 5V/2.1A load. This greatly minimizes power dissipation and reduces heat on the IC, making it ideal for applications that require small board space and have stringent temperature constraints, such as power banks and mobile devices. ETA1090 also incorporates ETA Solutions' True-Shutoff<sup>®</sup> technology that protects against overload and short-circuit conditions. All of these features are integrated in a tiny DFN3x3-12 package. With 1MHz switching frequency, small external input and output capacitors and inductor can be used.

### FEATURES

- ◆ Up to 97% Energy Converting Efficiency
- ◆ Up to 3A output current at 5V output, 3.6V input
- ◆ Externally adjustable output voltage
- ◆ True Shut off during shutdown and output short-circuit protection
- ◆ Thermal Shutdown
- ◆ DFN3x3-12

### APPLICATIONS

- ◆ 3G/4G PCI-e module
- ◆ Power Bank
- ◆ Mobile 3G/4G Mi-Fi
- ◆ Mobile Bluetooth music player and speaker

### ORDERING INFORMATION

PART	PACKAGE PIN	TOP MARK
ETA1090D3M	DFN3x3-12	ETA1090 <u>YWW2L</u>

### TYPICAL APPLICATION

