

YX2265 Four Switch Buck-Boost DC-DC EVM Demo Manual

1 Description and Features

This EVM is built to evaluate the performance of YX2265, which is a buck-boost DC-DC controller. The default evaluation output is 12V and the maximum output current is 10A. It has wide input voltage range suitable for 24V/12V/5V battery powered systems. The output can be also flexibly controlled to any voltage between 2V to 65V by changing the feedback resistor network. The main features of YX2265 is listed in bellow and can be evaluated on the demo board:

- Wide V_{IN} : 2.7V to 65V, Wide V_{OUT} : 2V to 65V
- Programmable soft start time
- Programmable input and output current limits
- Frequency Spread Spectrum(FSS)
- Optional External Clock Synchronization

2 Board Specifications

Table 1 Board specification

Parameter	Value	Unite
Input Voltage	4 to 60	V
Output Voltage	12	V
Maximum Output Current	10	A
Default Switching frequency	400	kHz
Board Size	85X60	mm

3 Test Setup

