PDEOZE PowerContainer

# Power supply for Xinchuang Communication Base Station

## Overview

What is a max15258 high voltage Inverting buck-boost controller?

The MAX15258 high voltage inverting buck-boost controller design is cost-effective, efficient, and scalable, allowing an easy addition and removal of phases on the same PCB layout. These benefits allow power converter designers to extend the power conversion efficiency.

What is a multi-output power supply design?

Multiple output designs may also employ a complex regulation scheme which senses multiple outputs to control the feedback loop. Voice-over-Internet-Protocol (VoIP), Digital Subscriber Line (DSL), and Third-generation (3G) base stations all necessitate varying degrees of complexity in power supply design.

What is a max15258 boost converter?

Again, the MAX15258 is fundamentally a boost converter running at a relatively low frequency. This naturally reduces the switching losses, which are the most important contributors to power loss in these converters. The device is designed to support up to 1 MHz switching frequencies.

Which power supply is best for a BBU & RRU?

A power supply with a capacity of 100 W to 350 W was sufficient to cover many applications. Forward converters were a good choice and have been employed for years in telecom BBUs and RRUs. With the growing demand for mobile data, new markets and applications continue to emerge.

What is a preferred power supply architecture for DSL applications?

A preferred power supply architecture for DSL applications is illustrated in Fig. 2. A push-pull converter is used to convert the 48V input voltage to +/-12V and to provide electrical isolation. Synchronous buck converters powered off of the +12V rail generate various low-voltage outputs.

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The simplest form of communication base station power supply is the trend of development in the future. From the traditional house to the cabinet, and then to the

blade power supply, it can ...

Figure 3. A power supply for a 5G macro base station block diagram. Highlighted ICs The MAX15258 is a high voltage multiphase boost controller with an I 2 C digital interface designed to support up to two MOSFET ...

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