The ZLPM8000 series provides a cost effective, highly efficient and reliable power management and control solution for satellite set-top boxes (STBs).

Based on an efficient boost converter, the ZLPM8000 series provides the power supply and all the control signals required by a single port satellite Low Noise Block (LNB).

The ZLPM8000 series includes an accurate 22kHz tone generator to provide DiSEqC™ control words or continuous tone for band switching control. To provide a reliable DiSEqC™ 2.0 solution the ZLPM8010 and ZLPM8011 include a DiSEqC™ detector with unwanted signal rejection.

Controlled by an I2C™ compatible interface or logic inputs and with the minimal external components, the ZLPM8000 series provides a high performing, efficient and cost efficient solution.

Applications
- Digital and analog satellite set-top boxes
- TV's with integrated satellite tuners
- Satellite PC cards

The Diodes Advantage

The ZLPM8000 has been design to provide STB designers with one of the most power efficient solutions as well as providing regional flexibility and enhanced system reliability.

- Fully featured LNB power management and control IC
  - Single Channel LNB power supply and control
  - Providing high (ZLPM8010) and normal (ZLPM8011/12) output currents
  - Suitable for both DiSEqC™ 2 and DiSEqC™ 1.x applications

- IC and System efficiency
  - Based on a highly efficient and stable switch converter with integrated low RDS(on) switching FET
  - Ultra low drop LDO and low current system design
  - Standby current of only 600uA

- High performance and reliability
  - Being the market leader in LNB control ICs, Diodes Zetex has transferred its technology down the cable to the STB
  - Reliable control and signal detection under any operating condition
  - Multiple diagnostic and system protection features

- System Flexibility
  - I2C or Logic controls allow any system architecture to be used
  - Regional programmability, one device fits most markets
  - The ZLPM8010 and ZLPM8011 are pin compatible for system flexibility

www.diodes.com
New Product Announcement
ZLPM8010, ZLPM8011, ZLPM8012

Typical ZLPM8010/11 Applications Circuit for a DiSEqC™ 1 Set-top Box

Product Family

<table>
<thead>
<tr>
<th>Part Name</th>
<th>LNB Ports</th>
<th>I2C</th>
<th>Logic</th>
<th>Enable 1.x</th>
<th>Enable 2.0</th>
<th>LNB Supply (mA)</th>
<th>LNB Voltage Range (V)</th>
<th>Over Temp</th>
<th>Over Current</th>
<th>LNB Detect</th>
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</thead>
<tbody>
<tr>
<td>ZLPM8010</td>
<td>1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>750</td>
<td>10.25 to 19.5</td>
<td>150°C</td>
<td>Adj</td>
<td>Yes</td>
</tr>
<tr>
<td>ZLPM8011</td>
<td>1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>450</td>
<td>10.25 to 19.5</td>
<td>150°C</td>
<td>Adj</td>
<td>Yes</td>
</tr>
<tr>
<td>ZLPM8012</td>
<td>1</td>
<td>Yes</td>
<td>Tone Only</td>
<td>Yes</td>
<td>No</td>
<td>450</td>
<td>10.25 to 19.5</td>
<td>150°C</td>
<td>Adj</td>
<td>Yes</td>
</tr>
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</table>

Ordering Information

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<tr>
<th>Device</th>
<th>Packaging (1)</th>
<th>Part mark ID</th>
<th>Reel size</th>
<th>Tape width</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>ZLPM8010J B20TC</td>
<td>U-QFN4040-20</td>
<td>ZLPM8010</td>
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<td>12mm</td>
<td>3000</td>
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<td>ZLPM8011</td>
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<tr>
<td>ZLPM8012J B20TC</td>
<td>U-QFN4040-20</td>
<td>ZLPM8012</td>
<td>13”</td>
<td>12mm</td>
<td>3000</td>
</tr>
</tbody>
</table>


Further Information

Further Information can be found at [www.diodes.com/DBS](http://www.diodes.com/DBS) or by emailing DBS@diodes.com

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I2C is a trademark of Philips Corp.