Features
- A primary buck converter converts from high voltage down to a link voltage, a secondary buck converter converts from link voltage. LDOs provide ripple free supply lines.
  - Primary buck converter
    - Input voltage up to 40V
    - Output voltage 4.0-6.0V
    - Output current up to 800mA
  - Secondary buck converter
    - Input voltage up to 5.5V
    - Output voltage 0.8V-5.1V
    - Output current up to 800mA
  - LDO 1
    - Input voltage up to 40V
    - Output voltage 0.5V-5.0V
    - Output current up to 320mA
  - LDO 2; LDO3; LDO4
    - Input voltage up to 6.0V
    - Output voltage 0.5-5.0V
    - Output current up to 350mA
    - Outputs parallelizable
  - Internal power sequencing
  - Configurable window / timeout watchdog

Applications
- Microcontroller Supply

General Description
- **SMPS**: Voltage mode buck converter system. Both buck converters can be activated via high voltage capable pins ON1 and/or ON2.

- **LDO1**: High voltage input LDO
- **LDO2-4**: Low voltage input LDOs

- **Power Monitoring**:
  - **PGOOD** indicates undisturbed operation of all regulators.
  - **RSTN** provides a reset for the controller in case of watchdog error or system undervoltage.
  - **FS_ON** sends a failsafe signal if the watchdog is not triggered properly.

- Internal state registers can be read via SPI

Ordering Information

<table>
<thead>
<tr>
<th>Ordering No.</th>
<th>Temp Range&lt;sub&gt;amb&lt;/sub&gt;</th>
<th>Package</th>
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<tr>
<td>E52251A78B</td>
<td>-40°C to +105°C</td>
<td>QFN48L7</td>
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