DC/DC Voltage Regulators
High-Efficiency Switching Converters

Infineon Technologies offers DC/DC converters fitting a broad range of industrial applications. By leveraging our long standing and market leading experience in automotive power supplies applications, we are expanding our portfolio to provide supply solutions to our customer's current and future application needs.

Applications
- Industrial automation
- Building management
- Battery chargers
- Metering systems
- Motor drives

At a Glance

Key Features
- Wide supply voltage operation range
- Low current consumption
- Current limitation and overtemperature protection
- Enable, soft start, sync features

Key Benefits
- High-efficiency regulation
- Few inexpensive passive components
- Stable regulation with small external compensation
- For preregulation in pre/post power supply solutions

www.infineon.com/industrial-standard
# DC/DC Voltage Regulators

## High-Efficiency Switching Converters

### Application Diagram IFX90121

![Application Diagram IFX90121](image)

### Product Summary

<table>
<thead>
<tr>
<th>Product</th>
<th>Regulator Type</th>
<th>Temperature Range [°C]</th>
<th>Output Voltage [V]</th>
<th>Output Current [mA]</th>
<th>( f_{sw} ) [MHz]</th>
<th>Quiescent Current [( \mu A )]</th>
<th>Enable (Y/N)</th>
<th>Early Warning</th>
<th>Maximum Input Voltage (Range) [V]</th>
<th>Accuracy Output Voltage [%]</th>
<th>Over Temperature Protection</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFX804715K/V/V50</td>
<td>Buck Controller</td>
<td>-40 … 125 Adj./5.0</td>
<td>2,300</td>
<td>0.36</td>
<td>2</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>5.0–60</td>
<td>3</td>
<td>Y</td>
<td>PG-DSD-14</td>
</tr>
<tr>
<td>IFX81481ELV</td>
<td>Synchronous Buck Controller</td>
<td>-40 … 125 Adj.</td>
<td>10,000</td>
<td>0.7</td>
<td>2</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>4.75–45</td>
<td>2</td>
<td>Y</td>
<td>PG-SSOP-14</td>
</tr>
<tr>
<td>IFX90121ELV50</td>
<td>Buck Regulator</td>
<td>-40 … 125 5.0</td>
<td>500</td>
<td>2.2</td>
<td>2</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>4.75–45</td>
<td>2</td>
<td>Y</td>
<td>PG-SSOP-14</td>
</tr>
<tr>
<td>IFX91041EJ/V/V33/V50</td>
<td>Buck Regulator</td>
<td>-40 … 125 Adj./3.3/5.0</td>
<td>1,800</td>
<td>0.37</td>
<td>2</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>4.75–45</td>
<td>2</td>
<td>Y</td>
<td>PG-DSD-B-EP</td>
</tr>
</tbody>
</table>

1) with external MOSFET

All our devices are especially designed for use in harsh environments. Our robust design approach ensures delamination-free ICs and long-term reliability.

Green products (RoHS compliant) meet the world-wide customer requirements for being environmentally friendly products and to be compliant with government regulations. Green products are RoHS-Compliant.

### Attention please!

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**Information**

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office (www.infineon.com).

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