



Product Brief

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

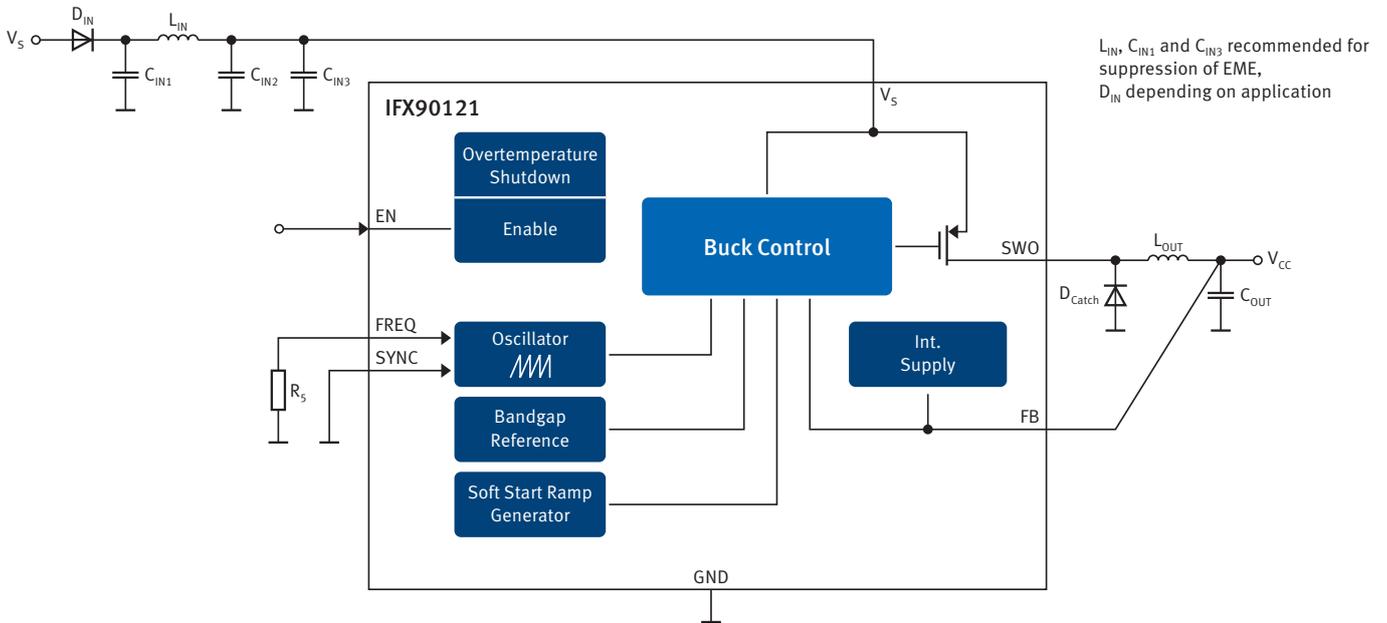
- High-efficiency regulation
- Few inexpensive passive components
- Stable regulation with small external compensation
- For preregulation in pre/post power supply solutions



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Application Diagram IFX90121



Product Summary

Product	Regulator Type	Temperature Range [°C]	Output Voltage [V]	Output Current [mA]	f _{sw} [MHz]	Quiescent Current [µA]	Enable (Y/N)	Reset	Early Warning	Maximum Input Voltage (Range) [V]	Accuracy Output Voltage [%]	Over Temperature Protection	Package
IFX80471SK V/V50 ¹⁾	Buck Controller	-40 ... 125	Adj./5.0	2,300	0.36	2	Y	Y	Y	5.0–60	3	Y	PG-DSO-14
IFX81481ELV ¹⁾	Synchronous Buck Controller	-40 ... 125	Adj.	10,000	0.7	2	Y	N	N	4.75–45	2	Y	PG-SSOP-14
IFX90121ELV50	Buck Regulator	-40 ... 125	5.0	500	2.2	2	Y	N	N	4.75–45	2	Y	PG-SSOP-14
IFX91041EJ V/V33/V50	Buck Regulator	-40 ... 125	Adj./3.3/5.0	1,800	0.37	2	Y	N	N	4.75–45	2	Y	PG-DSO-8-EP

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.

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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).

Warnings

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